Service
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Service Manual

Horizontal Frequency
31KHz-82KHz

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SAFETY NOTICE

ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFOMER FOR THIS UNIT WHEN SERVICING

TPV AOC EYES VALUE

Important Safety Notice

Proper service and repair is important to the safe, reliable operation of all AOC Company Equipment. The service procedures recommended by AOC and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. AOC could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, AOC has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by AOC must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.
Hereafter throughout this manual, AOC Company will be referred to as AOC.

WARNING

Use of substitute replacement parts, which do not have the same, specified safety characteristics might create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from AOC. AOC assumes no liability, express or implied, arising out of any unauthorized modification of design.
Servicer assumes all liability.

FOR PRODUCTS CONTAINING LASER:
DANGER-Invisible laser radiation when open AVOID DIRECT EXPOSURE TO BEAM.
CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
CAUTION -The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.
Take care during handling the LCD module with backlight unit
-Must mount the module using mounting holes arranged in four corners.
-Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
-Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
-Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
-Make certain that treatment person’s body is grounded through wristband.
-Do not leave the module in high temperature and in areas of high humidity for a long time.
-Avoid contact with water as it may a short circuit within the module.
-If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

Revision List

Version	Date	Revision History	TPV Model Name
A00	Oct-16-06	Initial Release	TA6GM1DFW1UGNP
A01	Mar.-27-07	Add TPV Model in item 12	TA6CM1DFW1UGNP
A02	May.-14-07	Add TPV Model In Item 12	TA6GM1DFW1UGNC

1. Monitor Specifications

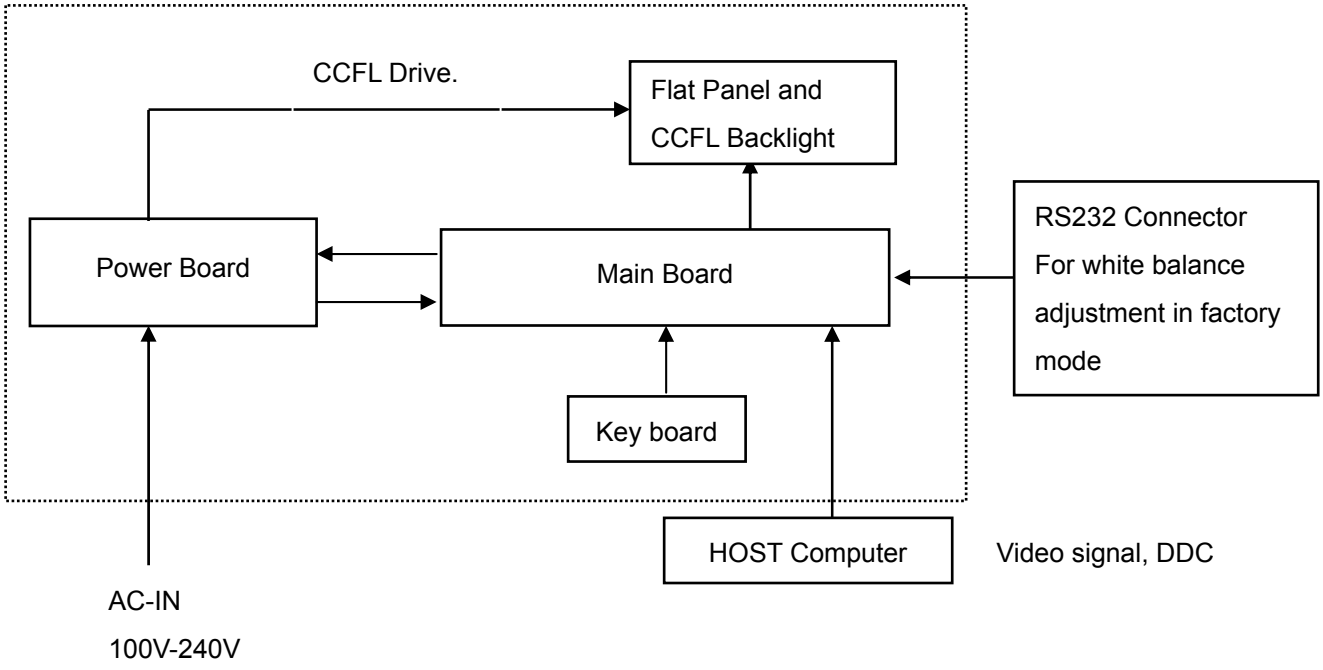
Items	Description	
LCD Panel	Driving system	TFT Color LCD
	Panel Type	LM201WE3
	Size	51.1cm (20.1")
	Pixel pitch	0.258mm (H) x 0.258mm (V)
	Viewable angle	160(H) 160(V)
	Response time (type)	5 ms
	Display Color	16.7M
	Contrast Ratio	800:1
	White Luminance	300cd/m^2
Input	Sync. Type	H/V TTL
	Input Connector	D-Sub 15pin，DVI 24pin
	Input Video Signal	Analog, Digital
	H-Frequency	31kHz – 82kHz
	V-Frequency	56-75Hz
Power Consumption	ON Mode	≤49W
	OFF Mode	≤1W
Max Dot Clock	146.25MHz	
Max. Resolution	1680 x 1050	
Plug & Play	VESA DDC2B™	
Power Source	100~240VAC,47~63Hz	
Maximum Screen Size	Horizontal : 459.4mm Vertical: 296.4mm	
Dimensions	398.5 mm (H) x472.3 mm (W) x182 mm (D)(NO Packed)	
Weight	Monitor only: 5.5 kg	
Environmental Considerations	Operating Temp: 5°C to 35°C Storage Temp: -20°C to 60°C Operating Humidity: 10% to 85%	

2. LCD Monitor Description

The LCD monitor will contain a main board, a power board, and a key board which house the flat panel control logic, brightness control logic and DDC.

The Inverter board will drive the backlight of panel and DC-DC conversion.

Monitor Block Diagram



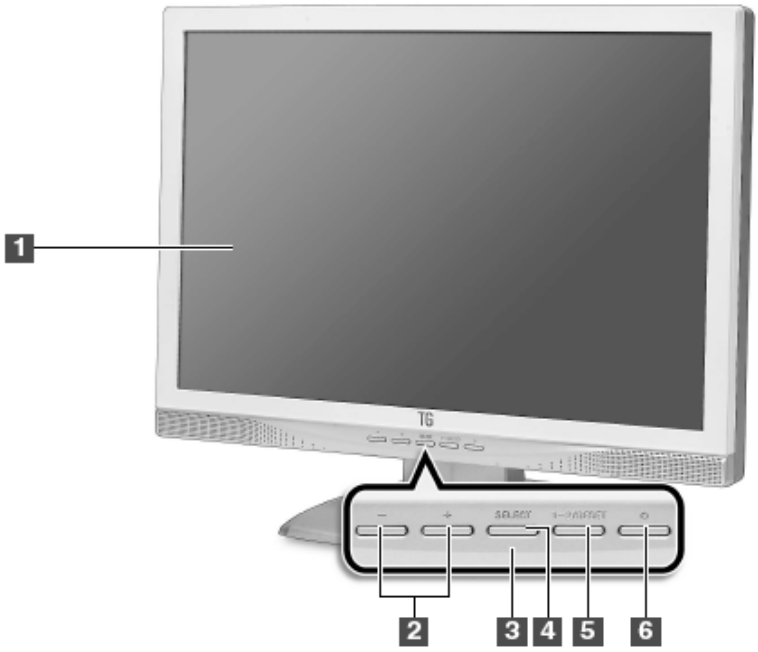
3. Operating Instructions

3.1 General Instructions

Press the power button to turn the monitor on or off. The other control buttons are located at front panel of the monitor. By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor position. The power indicator will light up.

3.2 Control Buttons

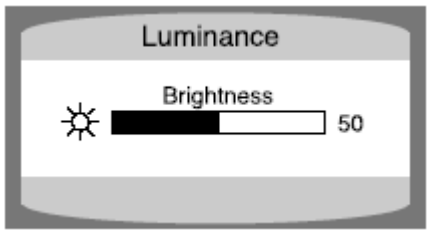


1 액정 화면(TFT LCD)

시스템의 작동 내용을 보여줍니다.

2 (-/+)(Brightness) 버튼

- OSD 화면상에서 이 버튼을 누르면 다음 메뉴 항목으로 이동합니다.
  선택한 메뉴 항목에서 이 버튼을 누르면 조정값이 감소 또는 증가합니다.
- OSD 메뉴가 없는 상태에서 (-/+) 버튼을 누르면 'Brightness'를 조절할 수 있는 화면이 나타납니다.

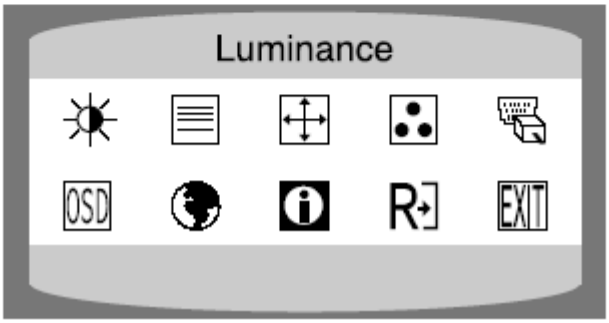


3 전원 표시등

LCD 모니터의 전원을 켜면 표시등에 녹색 불이 켜집니다.
(LCD 모니터가 절전 모드로 들어가면 표시등이 주황색으로 바뀝니다.)

4 SELECT 버튼

- 전원 표시등에 불이 들어온 상태에서 이 버튼을 누르면 OSD(On Screen Display) 메뉴 화면이 나타납니다.
- OSD 메뉴에서 이 버튼을 누르면 변경 설정할 메뉴를 선택할 수 있습니다.
- OSD 메뉴에서 현재 선택한 설정 값을 저장할 수 있습니다.



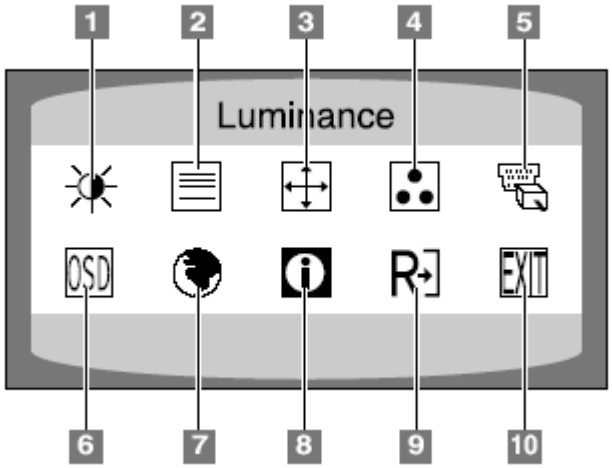
5 1-2/RESET 버튼

- OSD 메뉴 화면이 없는 상태에서 RESET 버튼을 누르면 'Auto Config Please Wait' 메시지와 함께 자동으로 현재 모드에 맞는 최상의 화면 상태로 조정됩니다.
- 서브 메뉴에서 이 버튼을 누르면 서브 메뉴를 빠져 나옵니다.

6 전원 버튼

이 버튼을 누르면 전원이 켜지고 다시 누르면 전원이 꺼집니다.

3.3 Adjusting the Picture



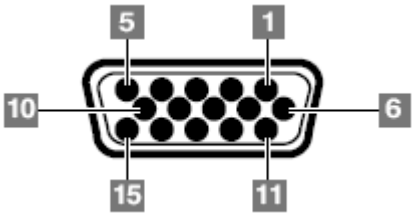
THE DESCRIPTION FOR CONTROL FUNCTION:

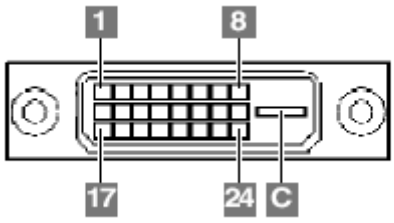
Main Menu Item	Main Menu Icon	Sub Menu Item	Sub Menu Icon	Description
Luminance		Contrast		Contrast from Digital-register.
		Brightness		Backlight Adjustment
Image Setup		Focus		Adjust Picture Phase to reduce Horizontal-Line noise
		Clock		Adjust picture Clock to reduce Vertical-Line noise.
Image Position		H. Position		Adjust the horizontal position of the picture.
		V. Position		Adjust the vertical position of the picture.
Color Temp.		Warm	N/A	Recall Warm Color Temperature from EEPROM.
		Cool	N/A	Recall Cool Color Temperature from EEPROM.
		sRGB	N/A	Recall sRGB Temperature from EEPROM.
		User / Red	R	Red Gain from Digital-register.
		User / Green	G	Green Gain Digital-register.
		User / Blue	B	Blue Gain from Digital-register.
Input Select		Analog	N/A	Select input signal from analog source (D-Sub)
		Digital	N/A	Select input signal from digital source (DVI)

OSD Setup	OSD	H. Position		Adjust the horizontal position of the OSD.
		V. Position		Adjust the vertical position of the OSD.
		OSD Timeout		Adjust the OSD timeout.
Language		Language	N/A	Select the language you like.
Information		Information	N/A	Show the resolution, H/V frequency and input port of current input timing.
Reset		Yes	N/A	Clear each old status of Auto-configuration.
		No	N/A	Do not execute reset, return to main menu.
Exit	EXIT	N/A	N/A	Exit OSD

4. Input/Output Specification

4.1 Input Signal Connector

Pin No.	Description	Pin No.	Description
1.	Red	9.	+5V
2.	Green	10.	Logic Ground
3.	Blue	11.	NC
4.	NC	12.	DDC-Serial Data
5.	DDC-Return	13.	H-Sync
6.	R-Ground	14.	V-Sync
7.	G-Ground	15.	DDC-Serial Clock
8.	B-Ground		
VGA connector			
			

Pin No.	Description	Pin No.	Description
1.	TMDS Data 2-	13.	TMDS Data 3+
2.	TMDS Data 2+	14.	+5V Power
3.	TMDS Data 2/4 Shield	15.	Ground(for+5V)
4.	TMDS Data 4-	16.	Hot Plug Detect
5.	TMDS Data 4+	17.	TMDS Data 0-
6.	DDC Clock	18.	TMDS Data 0+
7.	DDC Data	19.	TMDS Data 0/5 Shield
8.	Analog Vertical Sync	20.	TMDS Data 5-
9.	TMDS Data 1-	21.	TMDS Data 5+
10.	TMDS Data 1+	22.	TMDS Clock Shield
11.	TMDS Data 1/3 Shield	23.	TMDS Clock +
12.	TMDS Data 3-	24.	TMDS Clock -
			

4.2 Factory Preset Display Modes

VESA MODES							
			Horizontal		Vertical		
Mode	Resolution	Total	Nominal Frequency +/- 0.5kHz	Sync Polarity	Nominal Freq. +/- 1 Hz	Sync Polarity	Nominal Pixel Clock (MHz)
VGA	640x480@60Hz	800 x 525	31.469	N	59.940	N	25.175
	640x480@72Hz	832 x 520	37.861	N	72.809	N	31.500
	640x480@75Hz	840 x 500	37.500	N	75.00	N	31.500
SVGA	800x600@56Hz	1024 x 625	35.156	N/P	56.250	N/P	36.000
	800x600@60Hz	1056 x 628	37.879	P	60.317	P	40.000
	800x600@72Hz	1040 x 666	48.077	P	72.188	P	50.000
	800x600@75Hz	1056x625	46.875	P	75.000	P	49.500
XGA	1024x768@60Hz	1344x806	48.363	N	60.004	N	65.000
	1024x768@70Hz	1328x806	56.476	N	70.069	N	75.000
	1024x768@75Hz	1312x800	60.023	P	75.029	P	78.750
SXGA	1280x1024@60Hz	1688x1066	63.981	P	60.020	P	108.000
	1280x1024@75Hz	1688x1066	79.976	P	75.025	P	135.000
WSXGA	1680x1050@60Hz	2240x1089	65.29	N	59.95	P	146.25

IBM MODES							
			Horizontal		Vertical		
DOS	720x400@70Hz	900 x 449	31.469	N	70.087	P	28.322
DOS	640x350@70Hz	800 x 449	31.469	P	70.087	N	25.175
XGA	1024x768@72Hz	1304 x 798	57.515	P	72.1	P	75.000

MAC MODES							
VGA	640x480@67Hz	864x525	35.000	N	66.667	N	30.240
SVGA	832x624@75Hz	1152x667	49.725	N	74.551	N	57.2832
XGA	1024x768@60Hz	1312x813	48.780	N	60.001	N	64.000
	1024x768@75Hz	1328x804	60.241	N	74.927	N	80.000

4.3 Power Supply Requirement

A/C Line voltage range	100 V ~ 240 V
A/C Line frequency range	50 ± 3Hz, 60 ± 3Hz
Peak surge current	< 55A peak at 240 VAC and cold starting
Leakage current	< 3.5mA
Power line surge	No advance effects (no loss of information or defect) with a maximum of 1 half-wave missing per second
DC output Voltage	12VDC± 5％

4.4 Panel Specification

LM201WE3

4.4.1 General Features

Active Screen Size	20.1 inches(511.133mm) diagonal (Aspect ratio 16:10)
Outline Dimension	459.4(H) x 296.4 (V) x 22.8(D) mm (Typ.)
Pixel Pitch	0.258mm x 0.258mm
Pixel Format	1680 horiz. By 1050 vert. Pixels RGB strip arrangement
Color Depth	16,7 M colors
Luminance, White	300 cd/m² (Center 1 point, Typ.)
Viewing Angle (CR>10)	Viewing Angle Free (R/L 160(Typ.), U/D 160(Typ))
Power Consumption	Total 31.02 Watt(Typ.) (3.6 Watt@VLCD, 27.42 Watt@300cd/[LAMP=5.5mA])
Weight	2,850 g (Typ.)
Display Operating Mode	Transmissive mode, Normally White
Surface Treatment	Hard coating(3H) & Anti-glare (Haze 25%) treatment of the front polarizer

4.4.2 Optical Characteristics

Ta=25 °C, V_{LCD}=5.0V, fv=60Hz Dclk=119MHz, I_{BL}=5.5mA

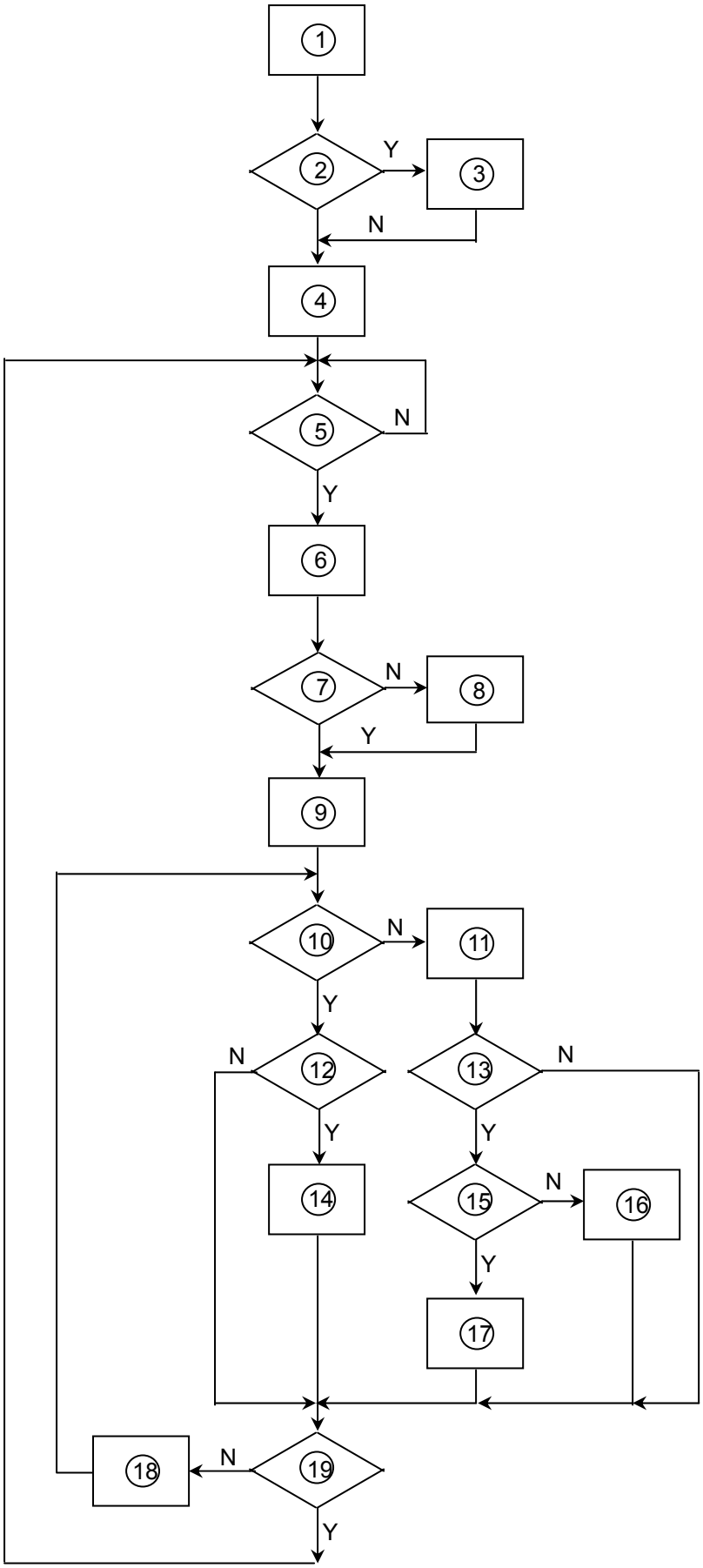
Parameter		Symbol	Values			Units
			Min	Typ	Max	
Contrast Ratio		CR	500	800	-	
Surface Luminance, white		L_{WH}	250	300	-	cd/m²
Luminance Variation		δ_{WHITE} 9P	75			%
Response Time	Rise Time	Tr_R	-	1.1	2.6	ms
	Decay Time	Tr_D	-	3.9	7.4	ms
Color Coordinates [CIE1931]	RED	Rx	Typ -0.03	0.635	Typ +0.03	
		Ry		0.342		
	GREEN	Gx		0.292		
		Gy		0.611		
	BLUE	Bx		0.147		
		By		0.070		
	WHITE	Wx		0.313		
		Wy		0.329		
Viewing Angle (CR>10)						
	x axis, right(ϕ=0°)	θr	70	80		Degree
	x axis, left (ϕ=180°)	θl	70	80		
	y axis, up (ϕ=90°)	θu	60	75		
	y axis, down (ϕ=270°)	θd	70	85		
Gray Scale				-		

4.4.3 Electrical Characteristics

Parameter		Symbol	Values			Unit
			Min	Typ	Max	
LAMP :						
Operating Voltage		V_{BL}	-	(830)	-	V_{RMS}
Operating Current		I_{BL}	3.0	5.5	6.0	mA_{RMS}
Established Starting Voltage		Vs				
	at 25 °C				1250	V_{RMS}
	at 0 °C				1550	V_{RMS}
Operating Frequency		f_{BL}	40	60	70	kHz
Discharge Stabilization Time		Ts			3	Min
Power Consumption		P_{BL}		(27.42)	(30.16)	Watt
Life Time			50,000			Hrs

5. Block Diagram

5.1 Software Flowing Chart

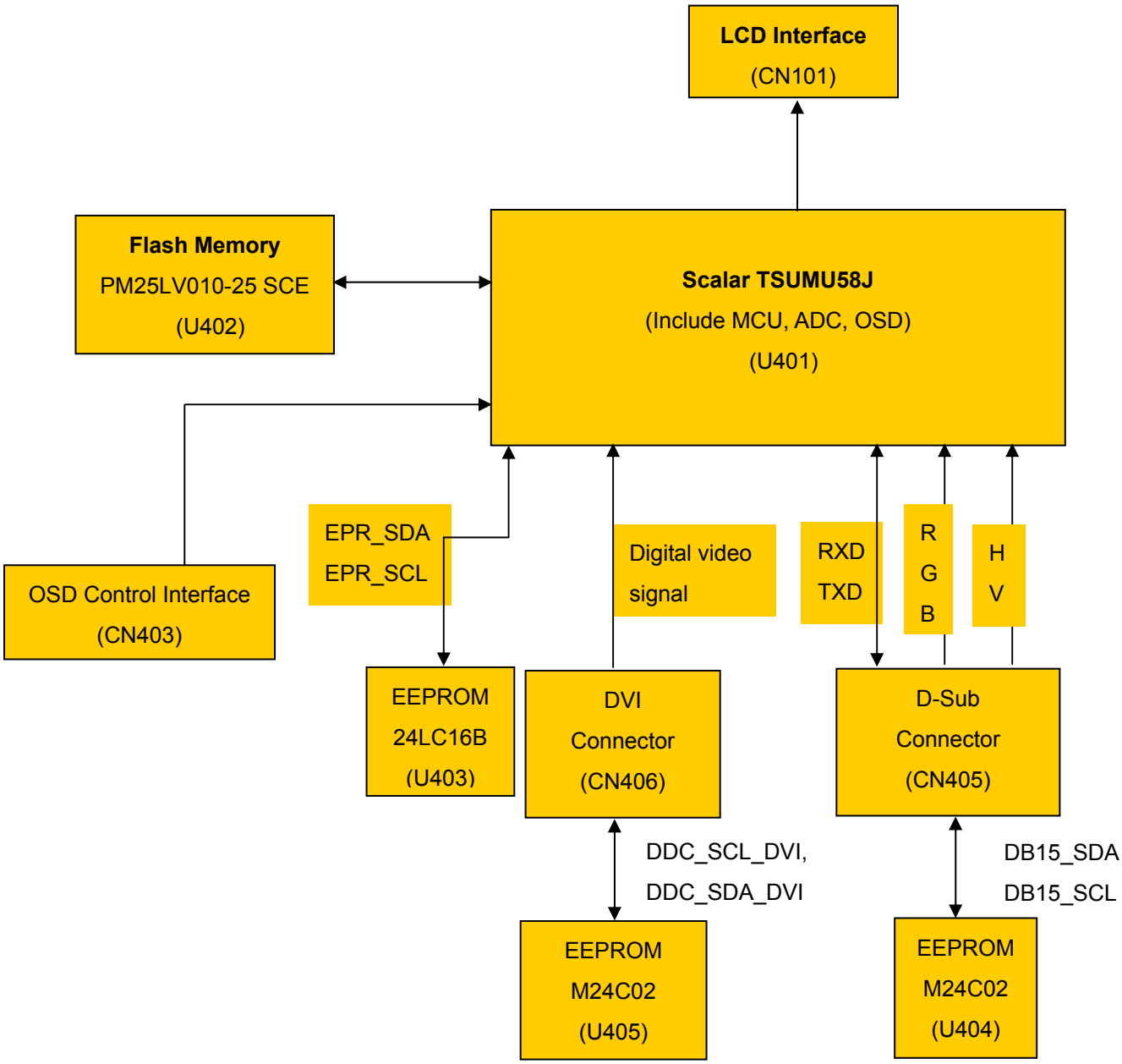


REMARK:

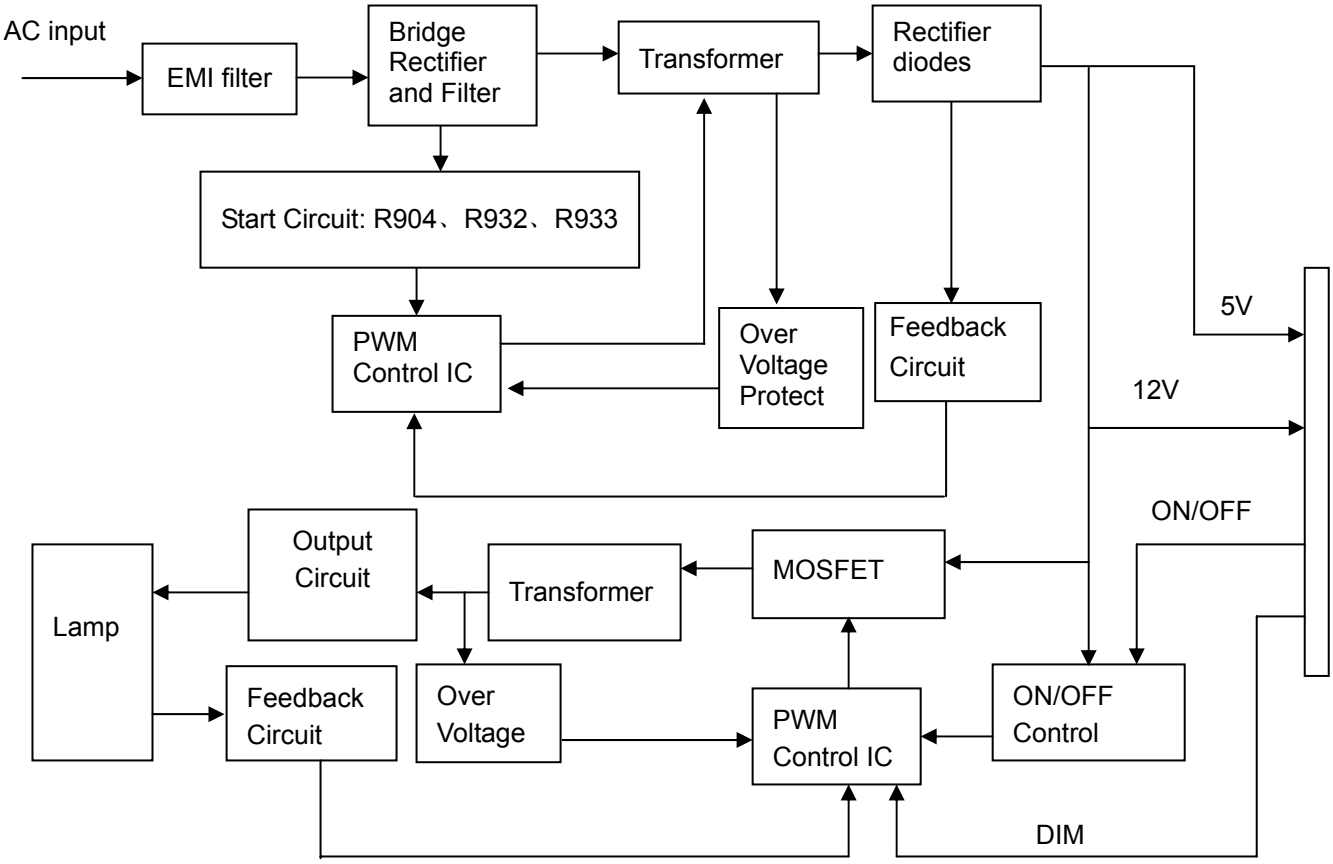
1) MCU initializes.
2) Is the EPROM blank?
3) Program the EPROM by default values.
4) Get the PWM value of brightness from EPROM.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EPROM. Turn on the LED and set it to green color. Scalar initializes.
10) In standby mode?
11) Update the lifetime of back light.
12) Check the analog port, are they’re any signals coming?
13) Does the scalar send out an interrupt request?
14) Wake up the scalar.
15) Are there any signals coming from analog port?
16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappears.
17) Program the scalar to be able to show the coming mode.
18) Process the OSD display.
19) Read the keyboard. Is the power key pressed?

5.2 Electrical Block Diagram

5.2.1 Main Board

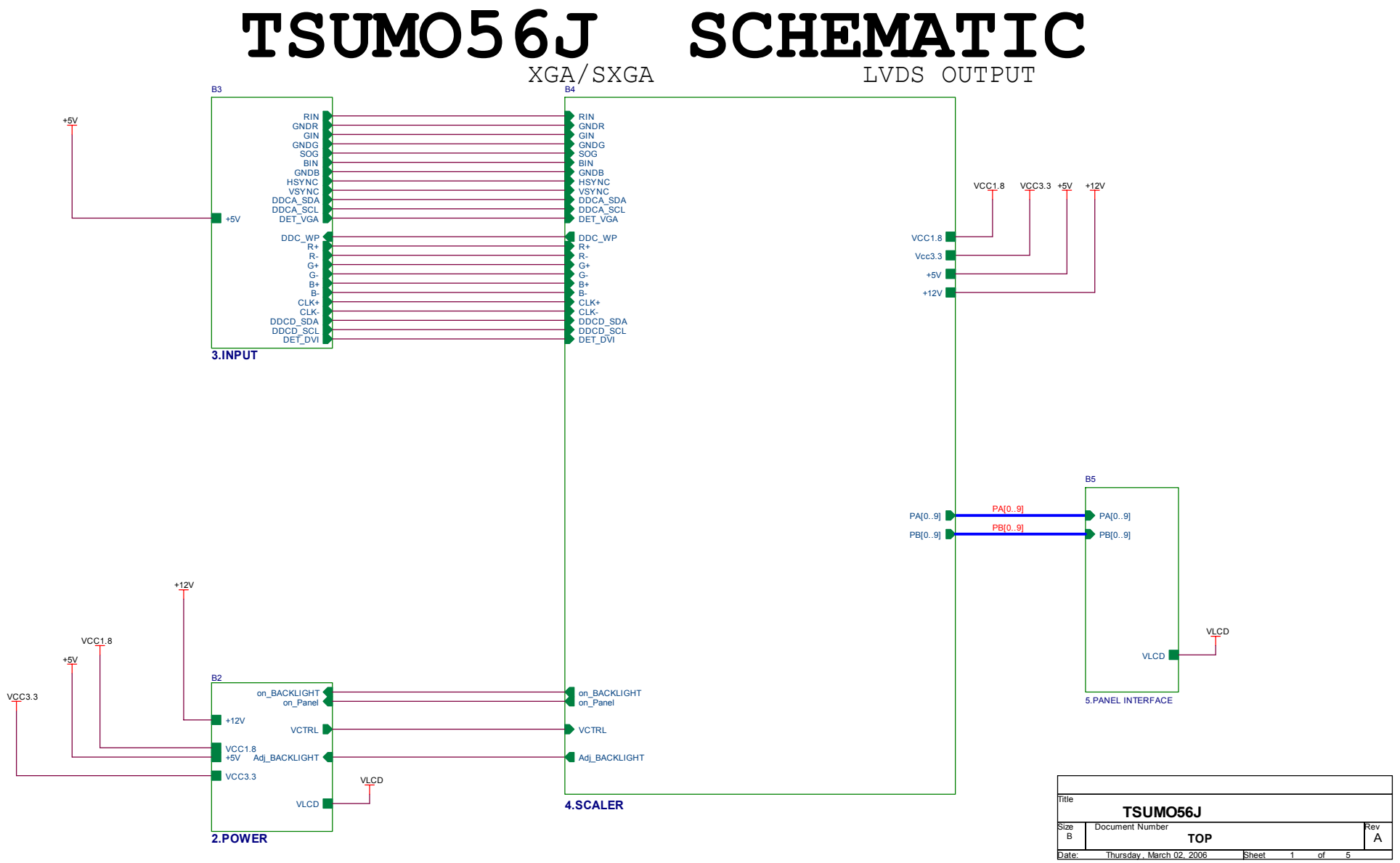


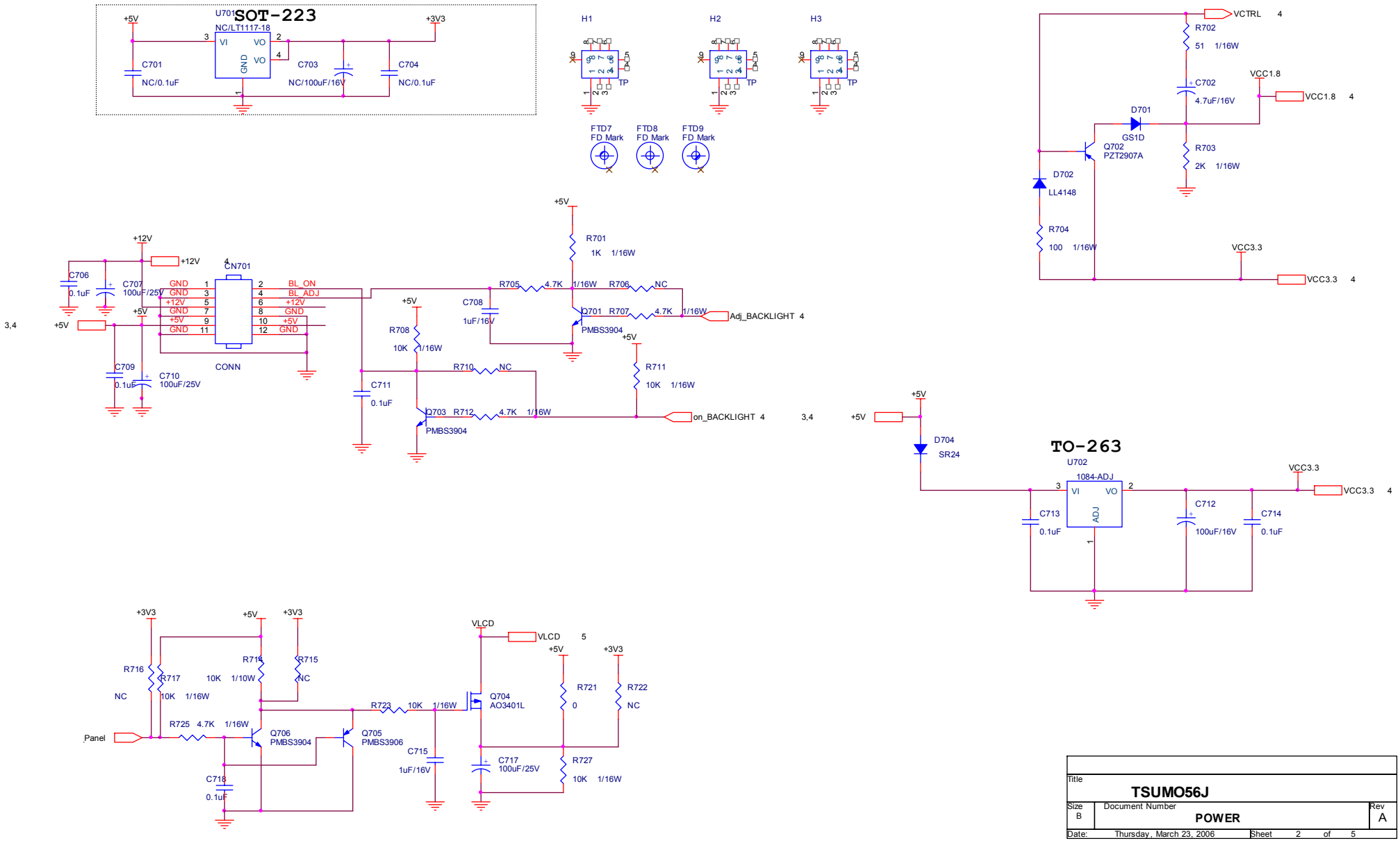
5.2.2 Power Board



6. Schematic

6.1 Main Board





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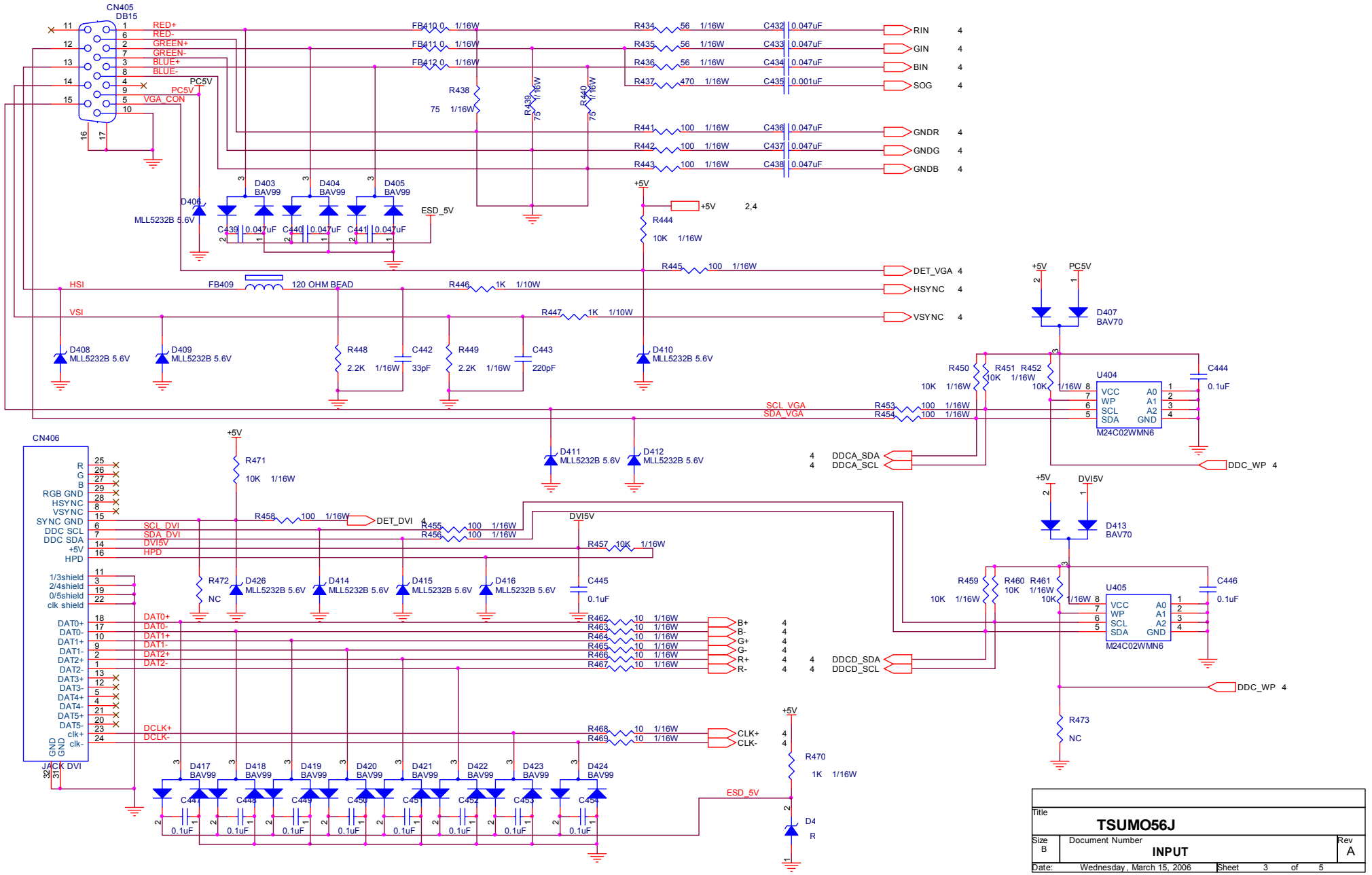
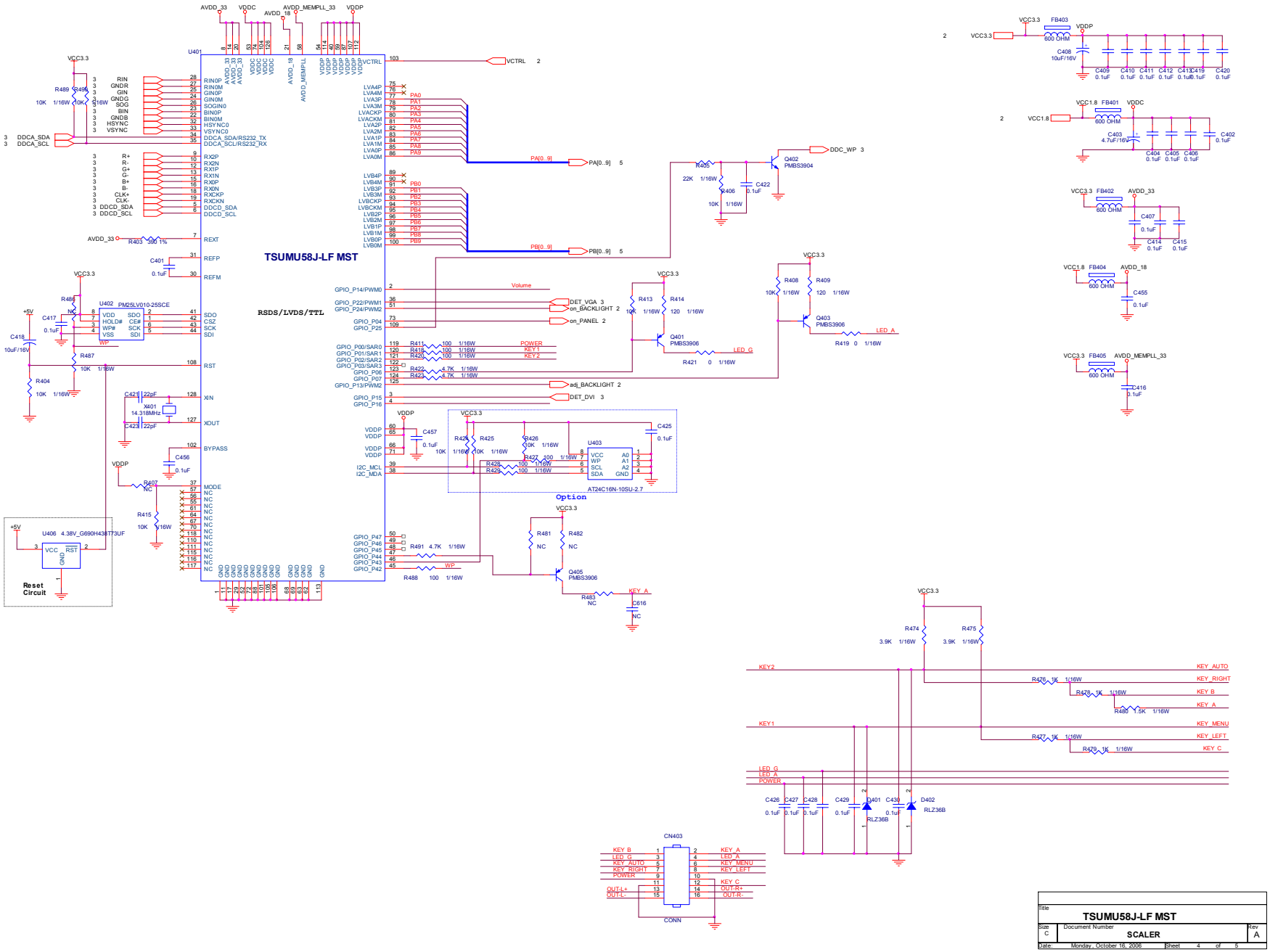
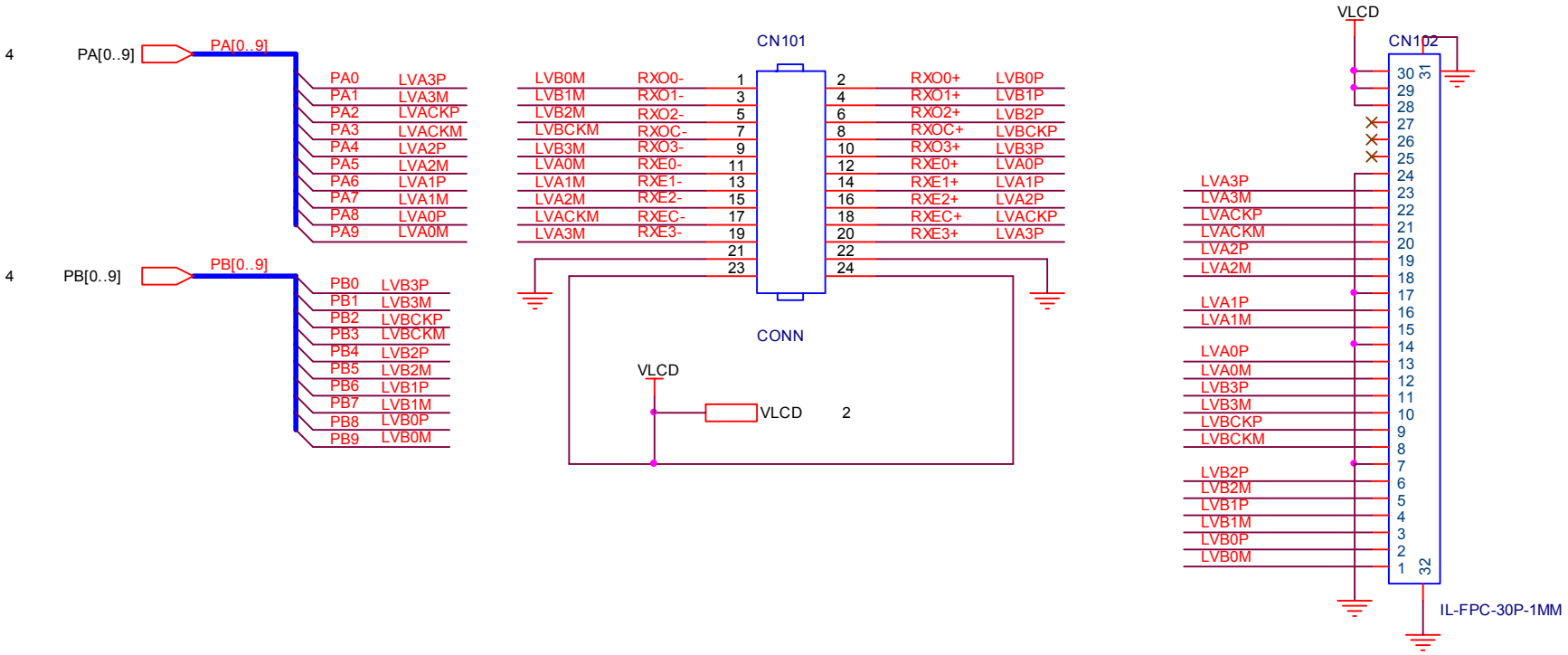
Size B	Document Number POWER	Rev A
Date: Thursday, March 23, 2006	Sheet 2 of 5	

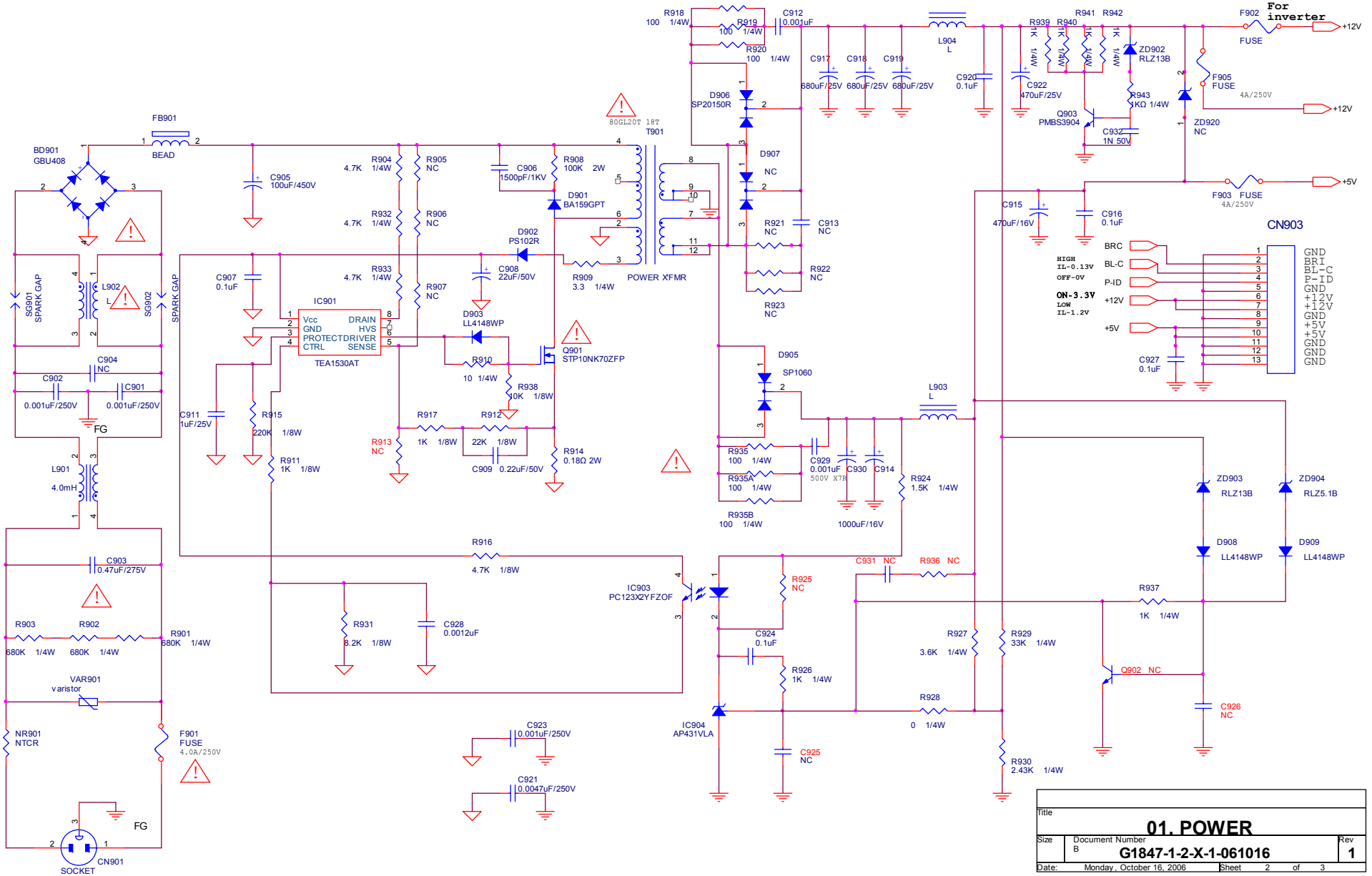

CN405
DB15
RED+
RED-
GREEN+
GREEN-
BLUE+
BLUE-
PC5V
VGA_CON
FB410 0 1/16W
FB411 0 1/16W
FB412 0 1/16W
R438 75 1/16W
R439 75 1/16W
R440 75 1/16W
R434 56 1/16W
R435 56 1/16W
R436 56 1/16W
R437 470 1/16W
C432 0.047uF
C433 0.047uF
C434 0.047uF
C435 0.001uF
RIN
GIN
BIN
SOG
R441 100 1/16W
R442 100 1/16W
R443 100 1/16W
C436 0.047uF
C437 0.047uF
C438 0.047uF
GNDR
GNDG
GNDB
D403 BAV99
D404 BAV99
D405 BAV99
D406 MLL5232B 5.6V
ESD_5V
C439 0.047uF
C440 0.047uF
C441 0.047uF
+5V
R444 10K 1/16W
R445 100 1/16W
DET_VGA
HSI
FB409 120 OHM BEAD
R446 1K 1/10W
HSYNC
VSI
R447 1K 1/10W
VSYNC
D408 MLL5232B 5.6V
D409 MLL5232B 5.6V
R448 2.2K 1/16W
C442 33pF
R449 2.2K 1/16W
C443 220pF
D410 MLL5232B 5.6V
D407 BAV70
R450 10K 1/16W
R451 10K 1/16W
R452 10K 1/16W
U404
M24C02WMN6
VCC
WP
SCL
SDA
A0
A1
A2
GND
C444 0.1uF
SCL_VGA
SDA_VGA
R453 100 1/16W
R454 100 1/16W
DDCA_SDA
DDCA_SCL
DDC_WP
D411 MLL5232B 5.6V
D412 MLL5232B 5.6V
CN406
R
G
B
RGB GND
HSYNC
VSYNC
SYNC GND
DDC SCL
DDC SDA
+5V
HPD
1/3shield
2/4shield
0/5shield
clk shield
JACK DVI
R471 10K 1/16W
R458 100 1/16W
DET_DVI
SCL_DVI
SDA_DVI
DVI5V
HPD
R455 100 1/16W
R456 100 1/16W
R457 10K 1/16W
R472 NC
D426 MLL5232B 5.6V
D414 MLL5232B 5.6V
D415 MLL5232B 5.6V
D416 MLL5232B 5.6V
C445 0.1uF
DAT0+
DAT0-
DAT1+
DAT1-
DAT2+
DAT2-
R462 10 1/16W
R463 10 1/16W
R464 10 1/16W
R465 10 1/16W
R466 10 1/16W
R467 10 1/16W
B+
B-
G+
G-
R+
R-
DDCD_SDA
DDCD_SCL
D413 BAV70
R459 10K 1/16W
R460 10K 1/16W
R461 10K 1/16W
U405
M24C02WMN6
C446 0.1uF
DDC_WP
R473 NC
DCLK+
DCLK-
R468 10 1/16W
R469 10 1/16W
CLK+
CLK-
R470 1K 1/16W
D417 BAV99
D418 BAV99
D419 BAV99
D420 BAV99
D421 BAV99
D422 BAV99
D423 BAV99
D424 BAV99
C447 0.1uF
C448 0.1uF
C449 0.1uF
C450 0.1uF
C451 0.1uF
C452 0.1uF
C453 0.1uF
C454 0.1uF
ESD_5V
D4
R
Title
TSUMO56J
Size B
Document Number
INPUT
Rev A
Date: Wednesday, March 15, 2006
Sheet 3 of 5

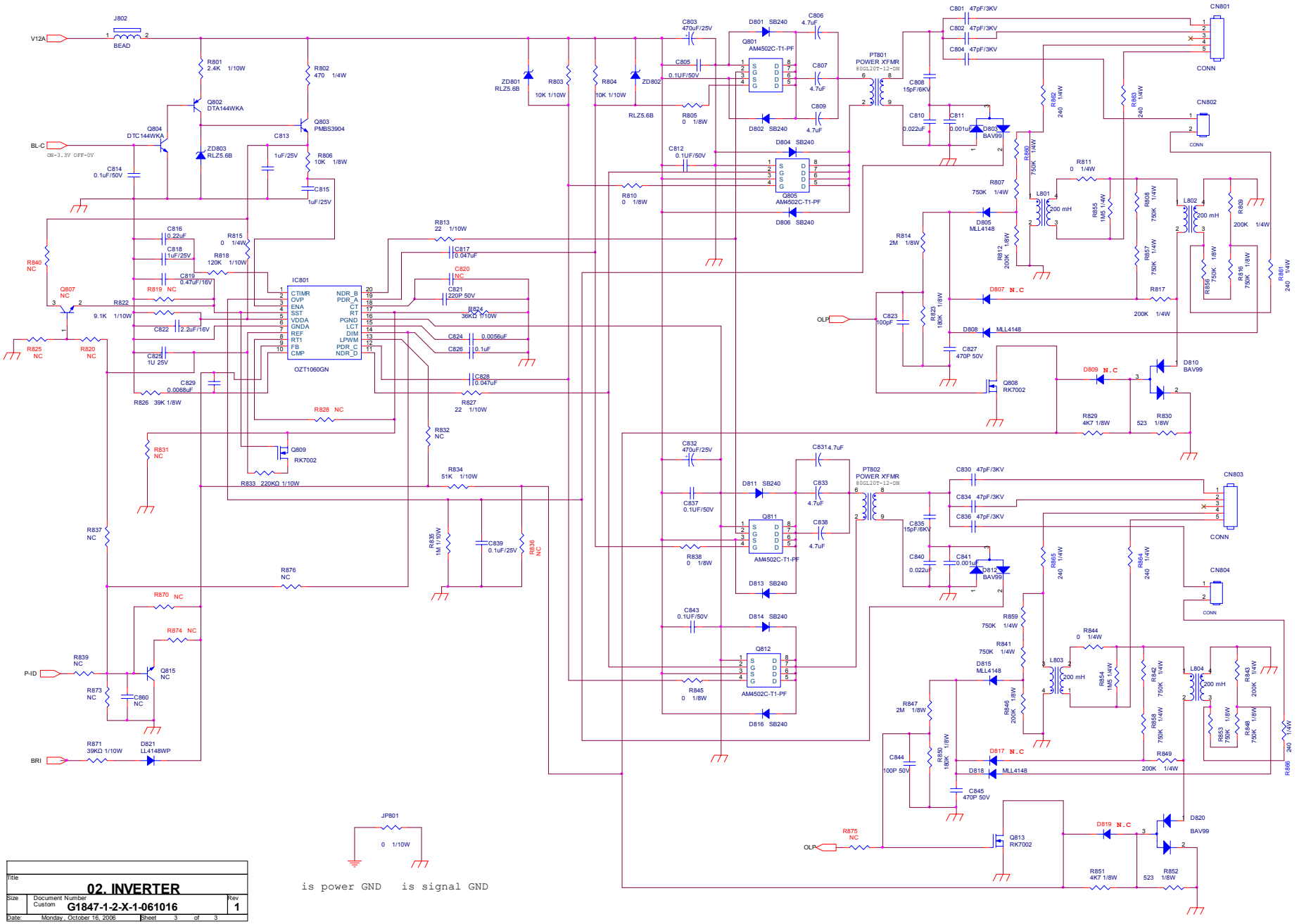

TSUMU58J-LF MST
RSDS/LVDS/TTL
U401
U402 PM25LV010-25SCE
U403
AT24C16N-10SU-2.7
U406 4.38V_G690H438T3UF
Reset Circuit
Option
X401 14.318MHz
Q401 PMBS3906
Q402 PMBS3904
Q403 PMBS3906
Q405 PMBS3906
CN403
CONN
Volume
POWER
KEY1
KEY2
WP
LED_G
LED_A
KEY_A
KEY_B
KEY_AUTO
KEY_RIGHT
KEY_MENU
KEY_LEFT
KEY_C
Title
TSUMU58J-LF MST
Document Number
SCALER
Rev
A
Date: Monday, October 16, 2006
Sheet 4 of 5



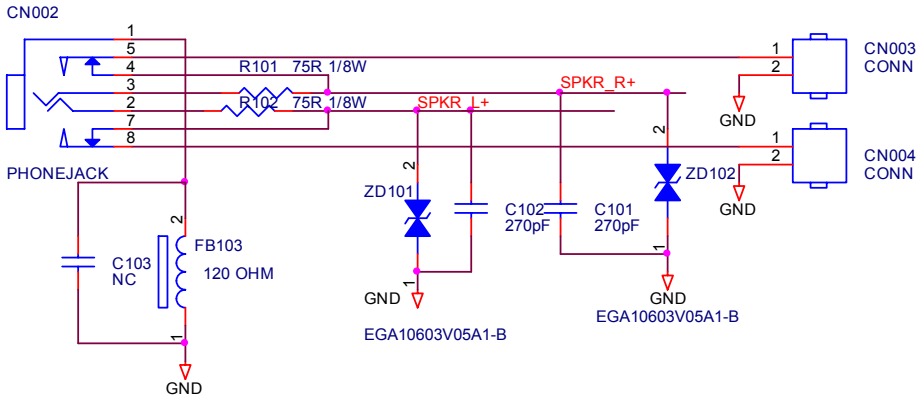
Title	TSUMO56J		
Size A	Document Number PANEL INTERFACE		Rev A
Date: Thursday , March 02, 2006	Sheet 5 of 5		

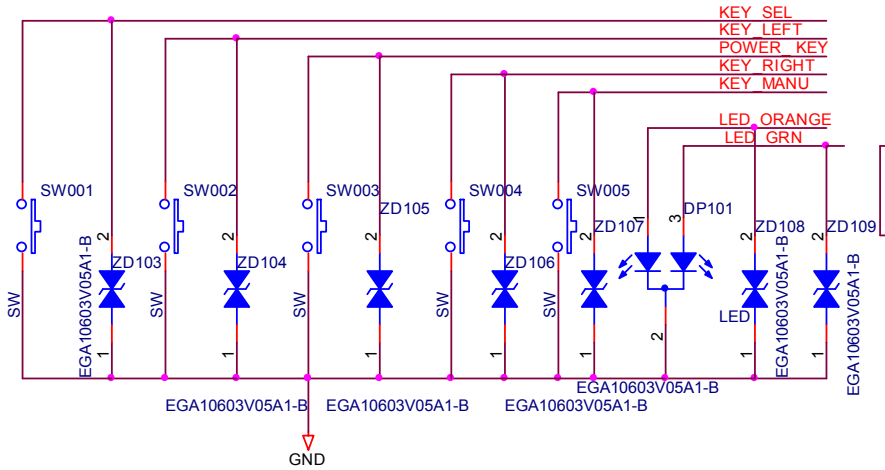
6.2 Power Board

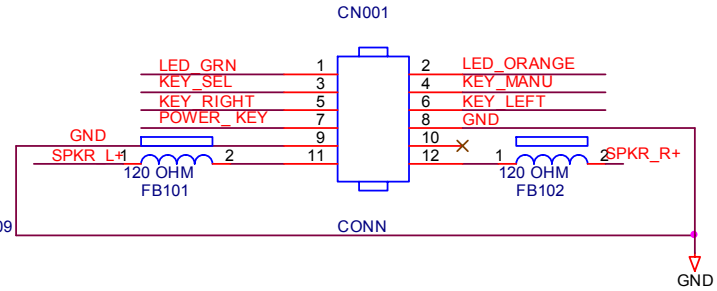



J802
BEAD
V12A
BL-C
ON-3.3V OFF-0V
IC801
OZT1060GN
CTIMR
OVP
ENA
SST
VDDA
GNDA
REF
RT1
FB
CMP
NDR_B
PDR_A
CT
RT
PGND
LCT
DIM
LPWM
PDR_C
NDR_D
PT801
PT802
POWER XFMR
80GL20T-12-DN
CN801
CN802
CN803
CN804
CONN
Q801
Q802
Q803
Q804
Q805
Q806
Q807
Q808
Q809
Q811
Q812
Q813
Q815
AM4502C-T1-PF
DTC144WKA
PMBS3904
RK7002
D801 SB240
D802 SB240
D803 BAV99
D804 SB240
D805 MLL4148
D806 SB240
D807 N.C
D808 MLL4148
D809 N.C
D810 BAV99
D811 SB240
D812 BAV99
D813 SB240
D814 SB240
D815 MLL4148
D816 SB240
D817 N.C
D818 MLL4148
D819 N.C
D820 BAV99
D821 LL4148WP
ZD801 RLZ5.6B
ZD802 RLZ5.6B
ZD803 RLZ5.6B
OLP
P-ID
BRI
JP801
0 1/10W
is power GND
is signal GND
Title
02. INVERTER
Size
Document Number
Custom
G1847-1-2-X-1-061016
Rev
1
Date: Monday, October 16, 2006
Sheet 3 of 3

6.3 Key Board



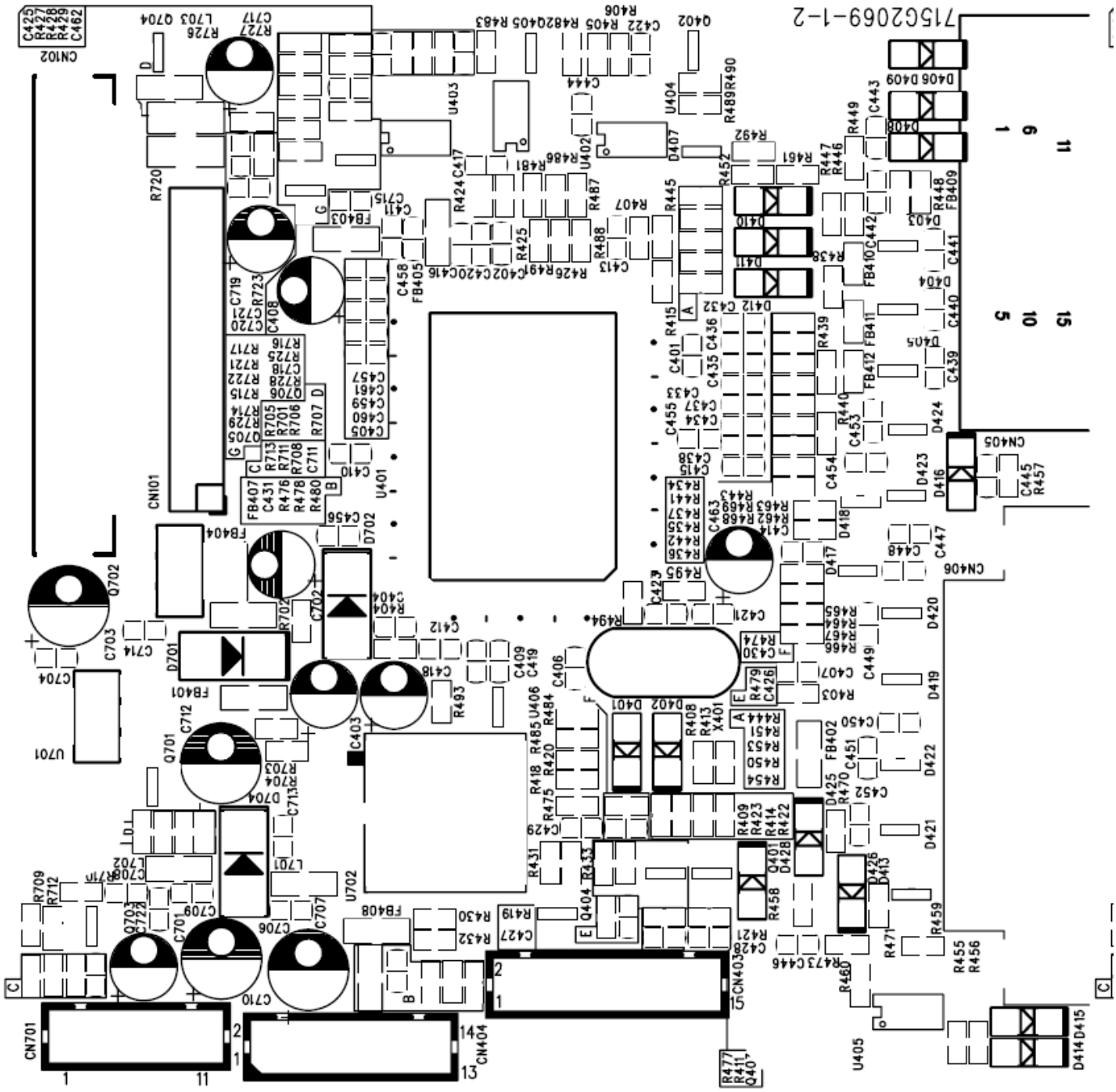


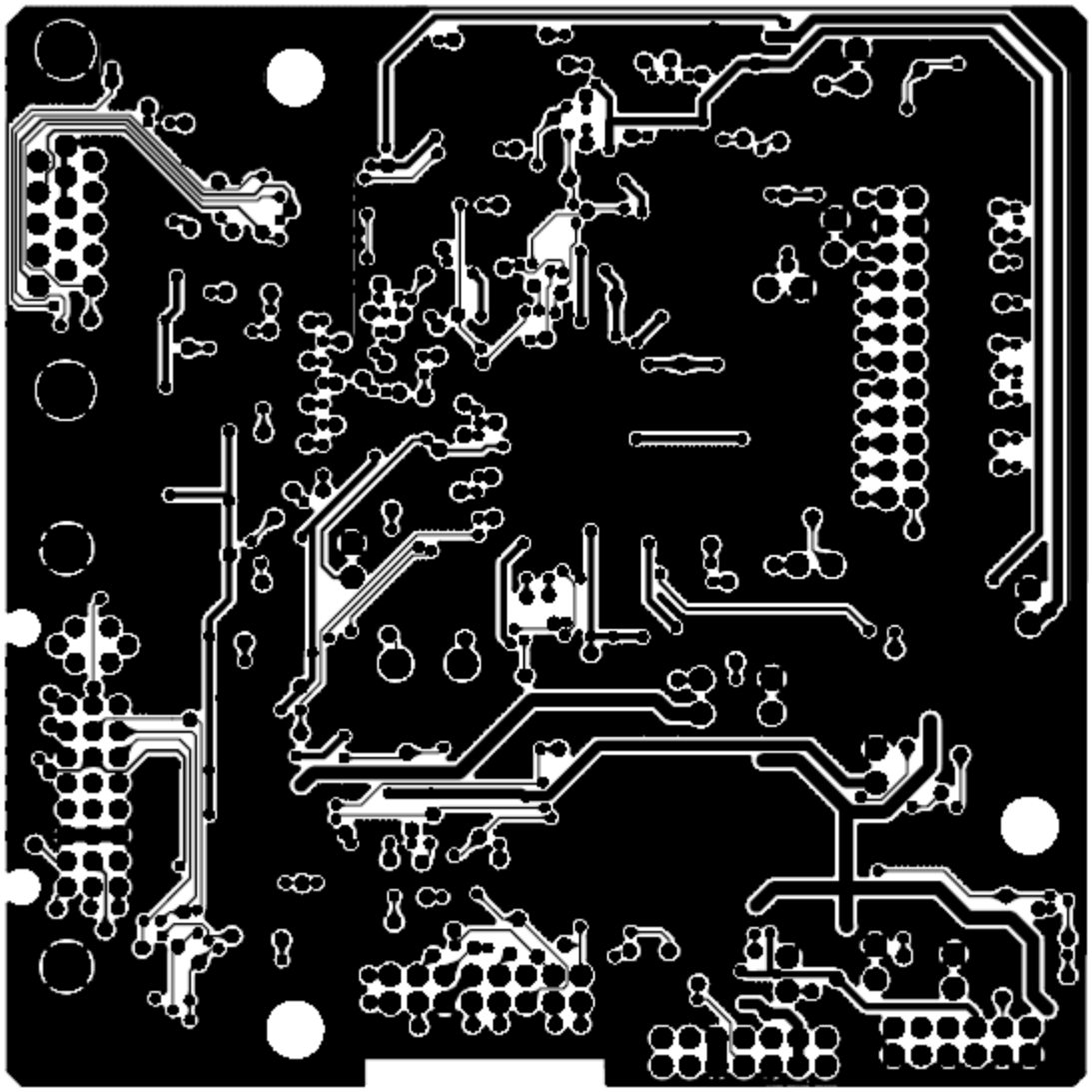


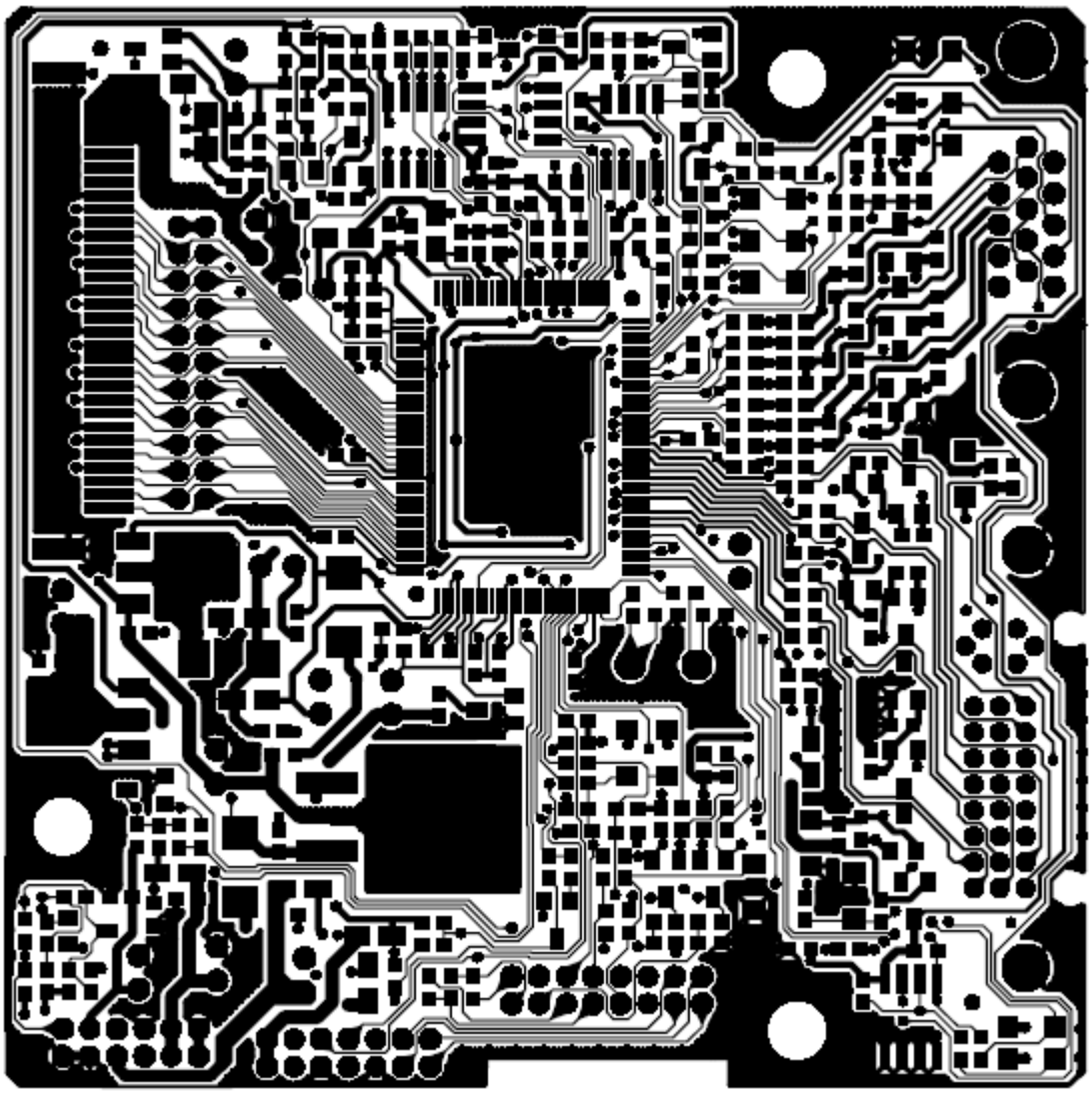
AOC (Top Victory) Electronics Co., Ltd.		
Title: Mitsubishi 19/20W keypad	715G2127-B-MIT	
Size: A	Document Number	Rev: B
Date: Friday, June 16, 2006	Sheet 1 of 1	

7. PCB Layout

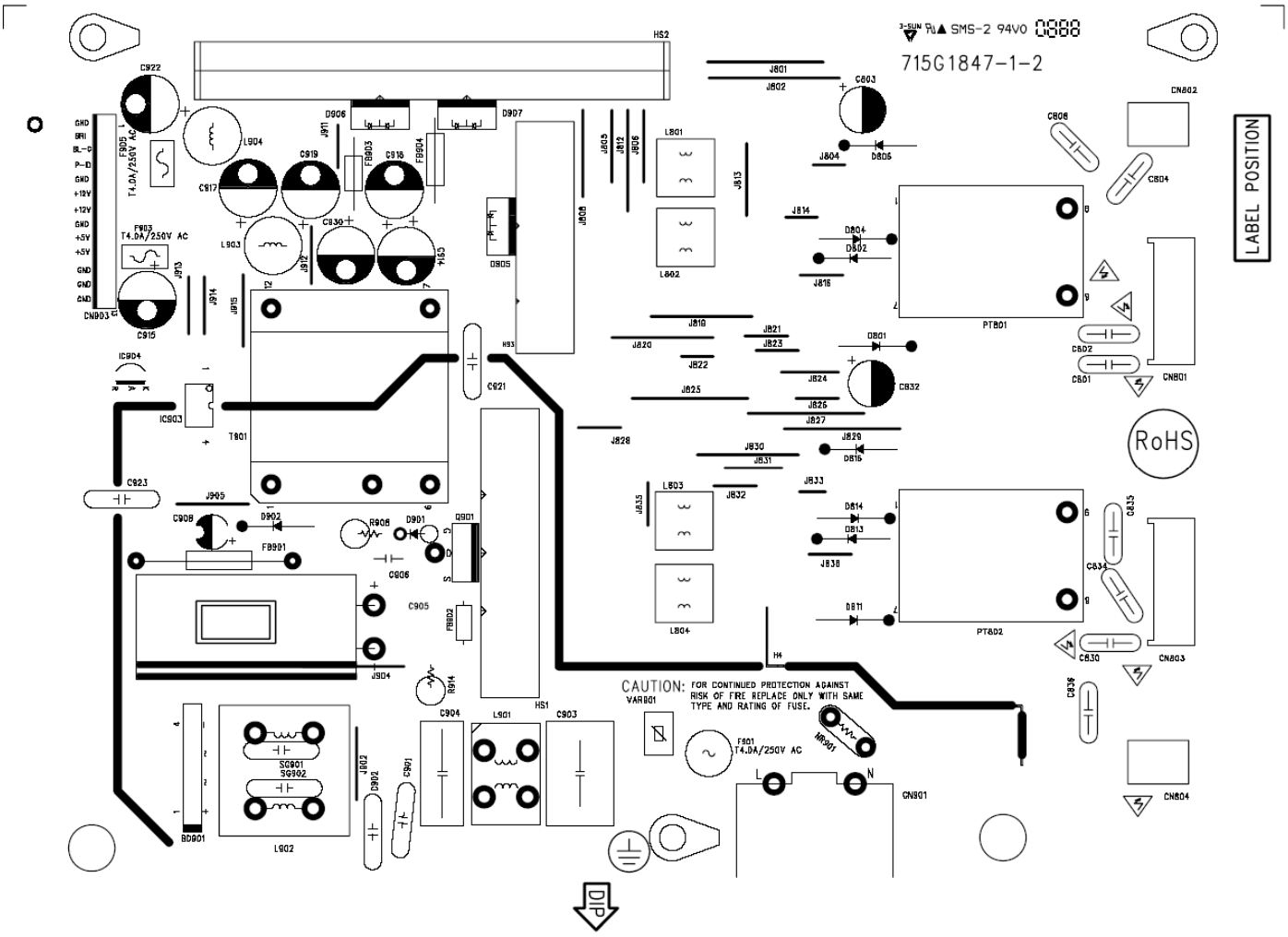
7.1 Main Board

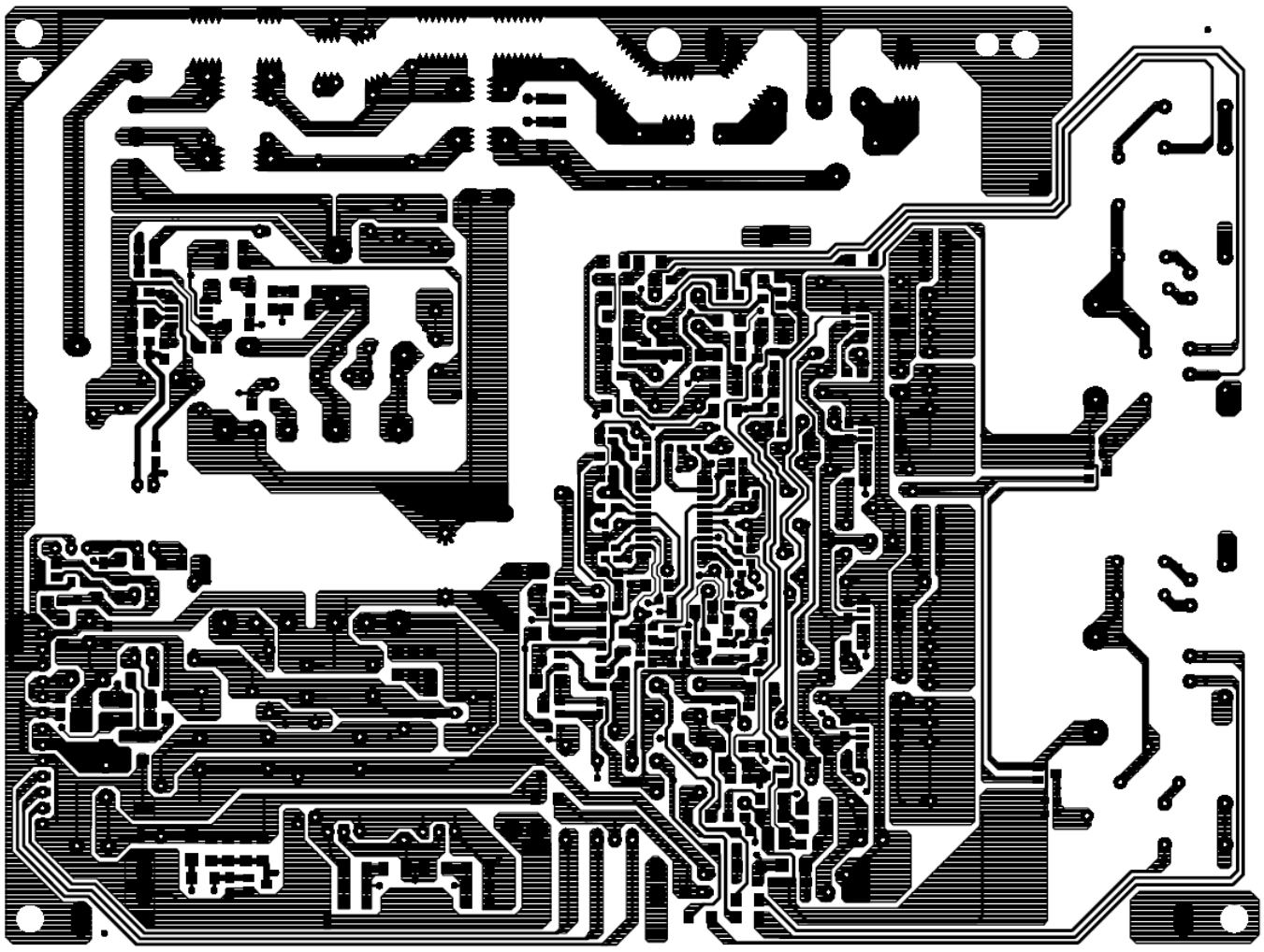




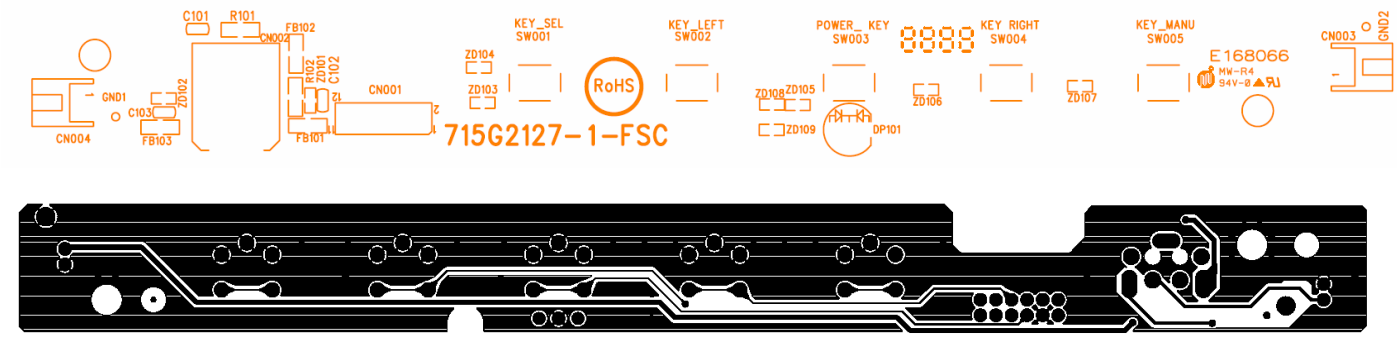


7.2 Power Board


715G1847-1-2
LABEL POSITION
RoHS
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.
DIP



7.3 Key Board


C101
R101
FB102
CN004
GND1
C103
ZD102
CN004
FB103
RH02
ZD101
C102
CN001
FB101
KEY_SEL
SW001
KEY_LEFT
SW002
ZD104
ZD103
RoHS
715G2127-1-FSC
POWER_ KEY
SW003
KEY RIGHT
SW004
ZD108
ZD105
ZD106
ZD107
ZD109
DP101
KEY_MANU
SW005
E168066
MW-R4
94V-2
CN003
GND2

8. Maintainability

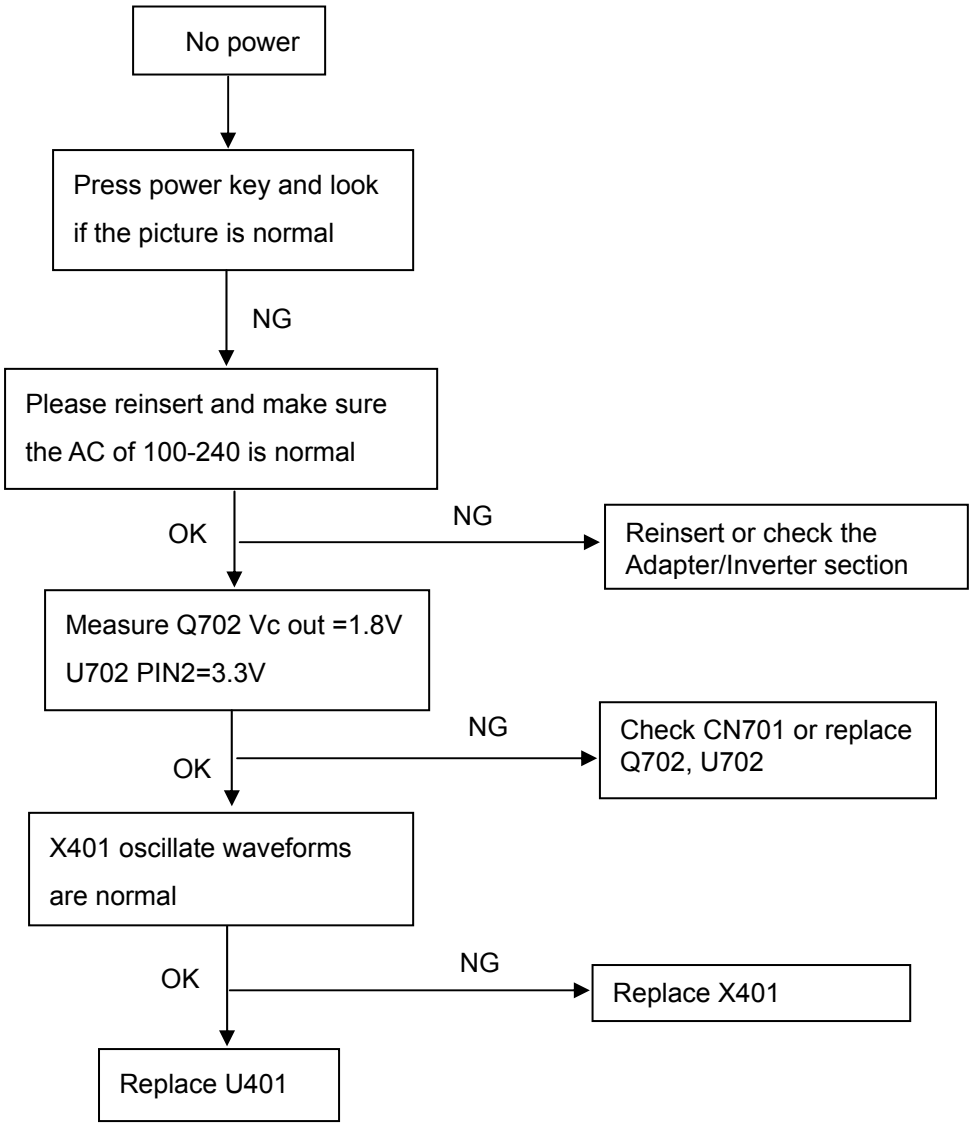
8.1 Equipments and Tools Requirement

Voltmeter; Oscilloscope; Pattern Generator; DDC Tool with an IBM Compatible Computer; Alignment Tool; LCD Color Analyzer; Service Manual; User Manual.

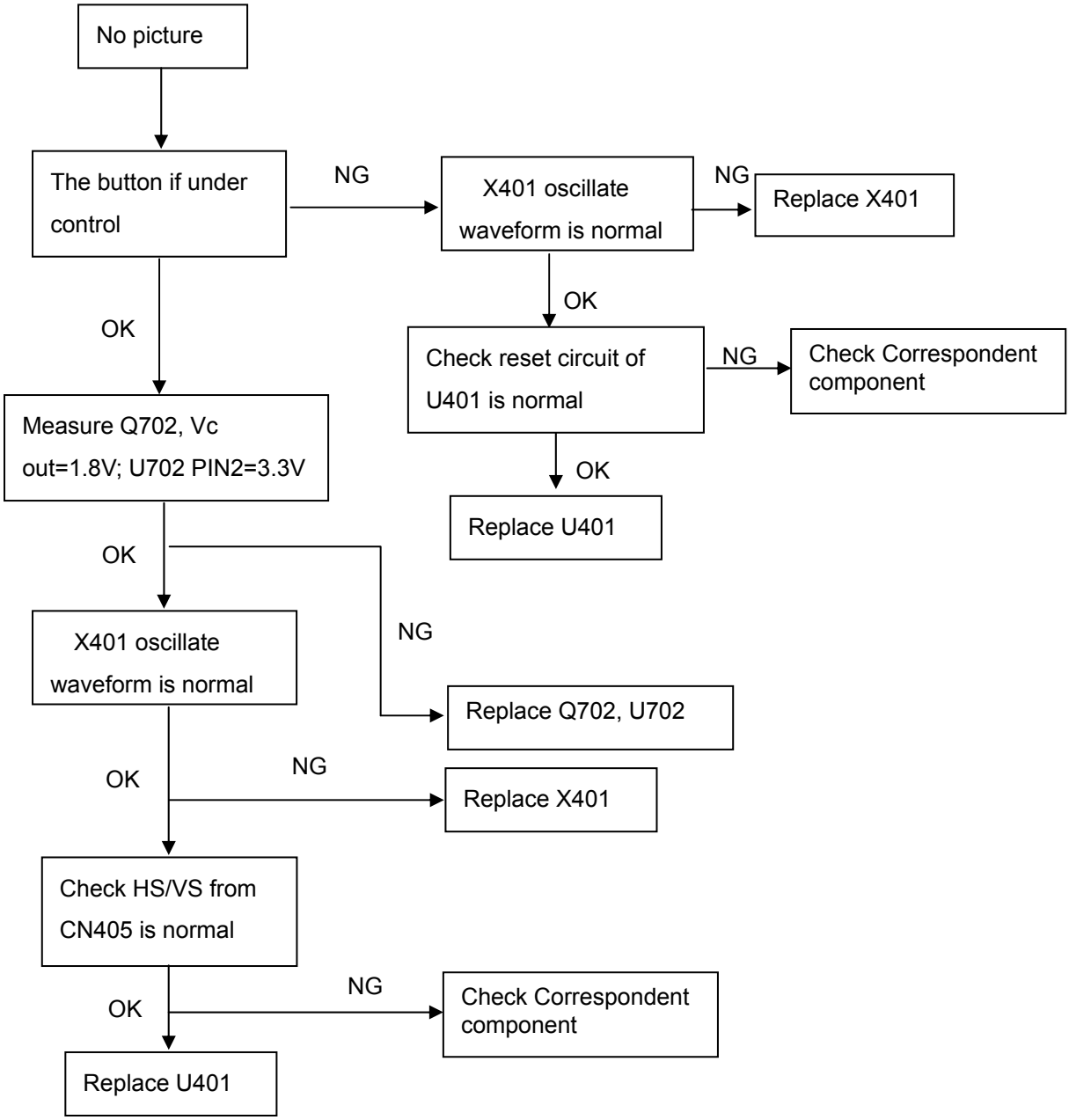
8.2 Trouble Shooting

8.2.1 Main Board

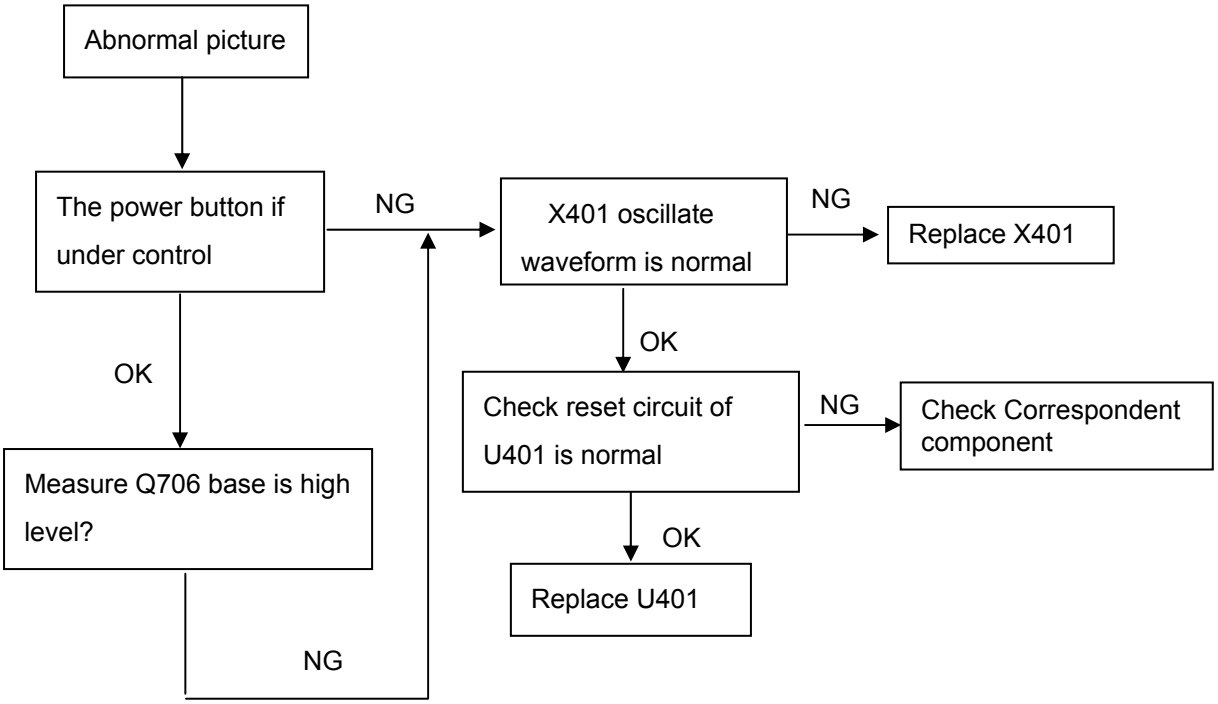
No Power



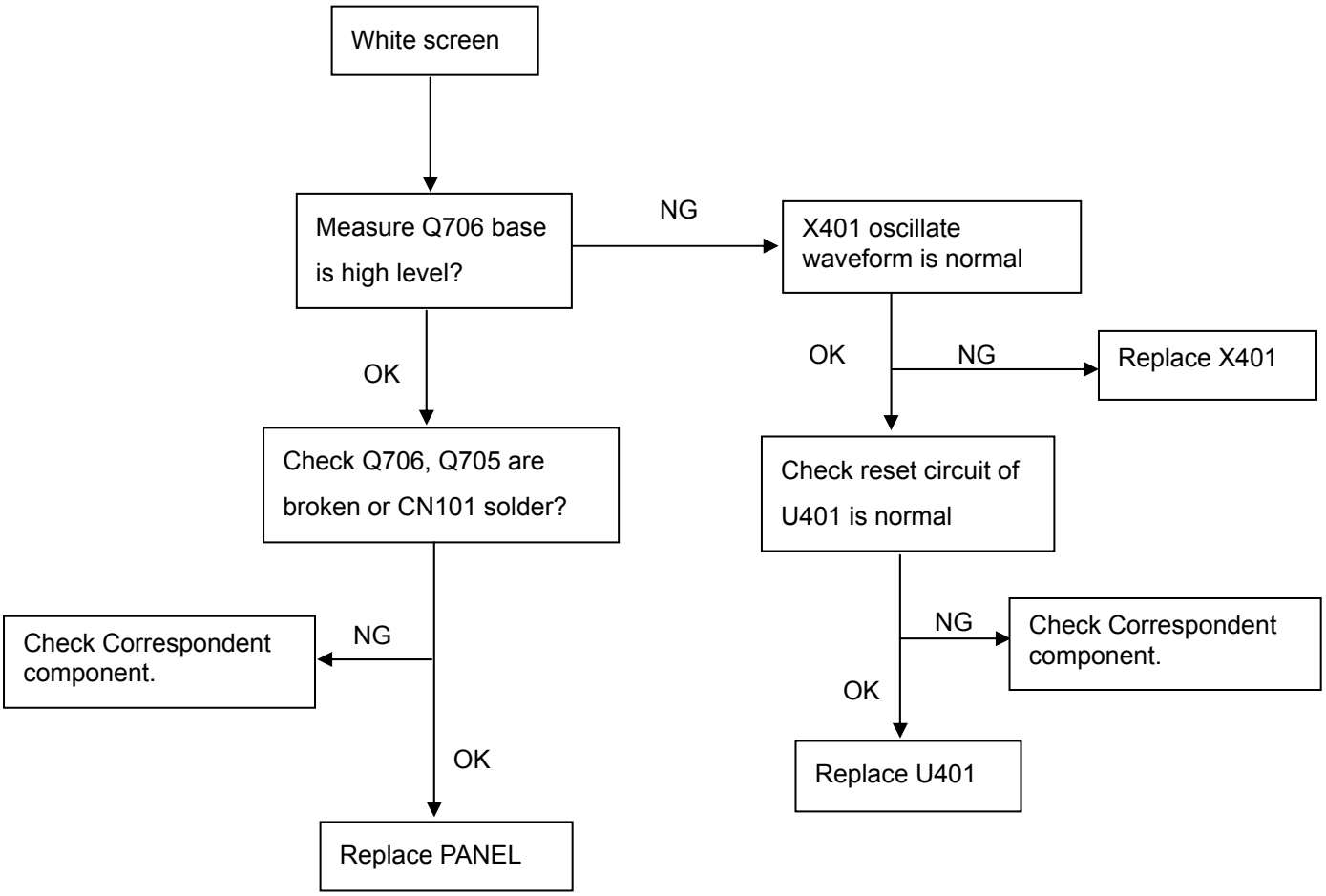
No Picture (LED orange)



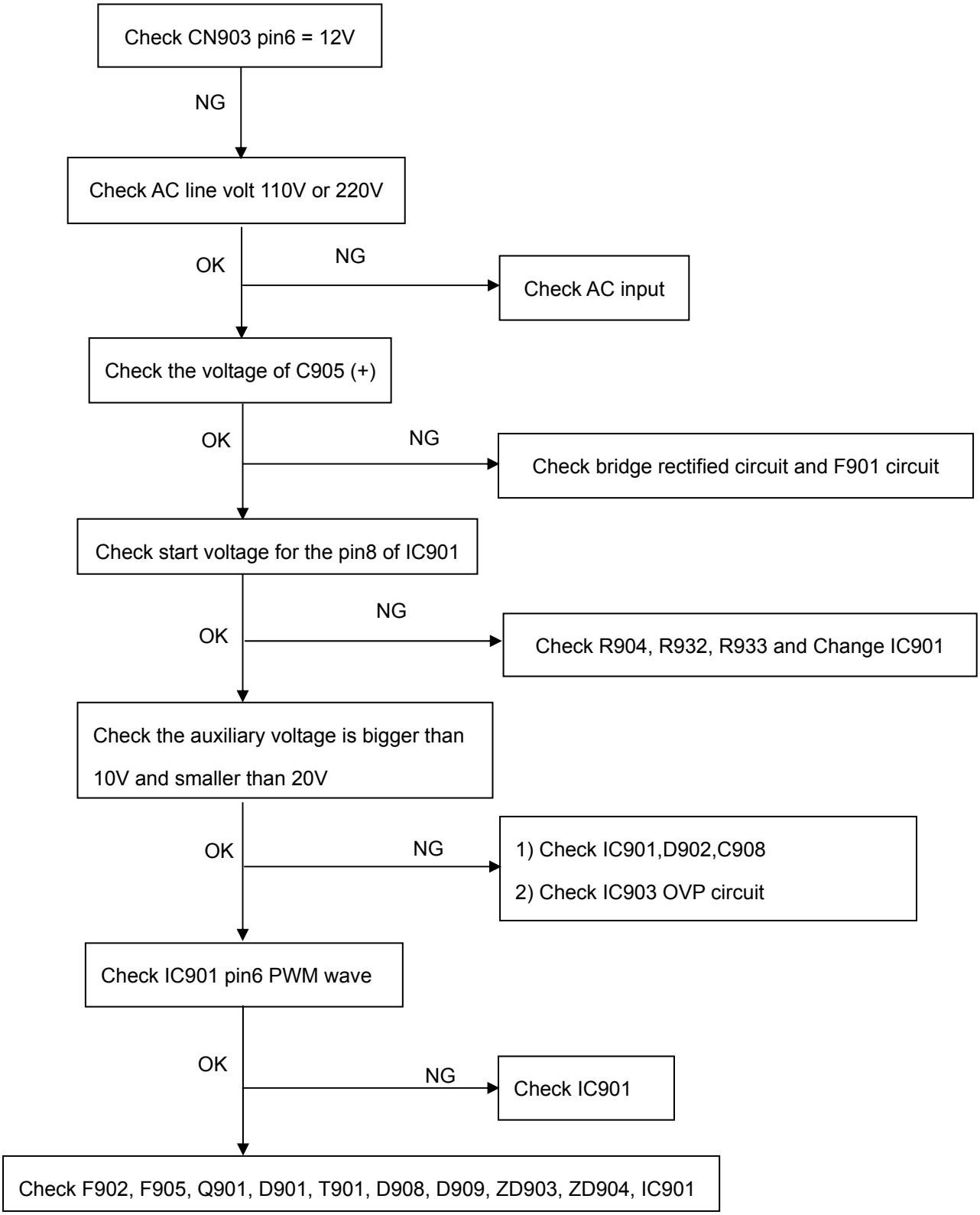
Abnormal picture



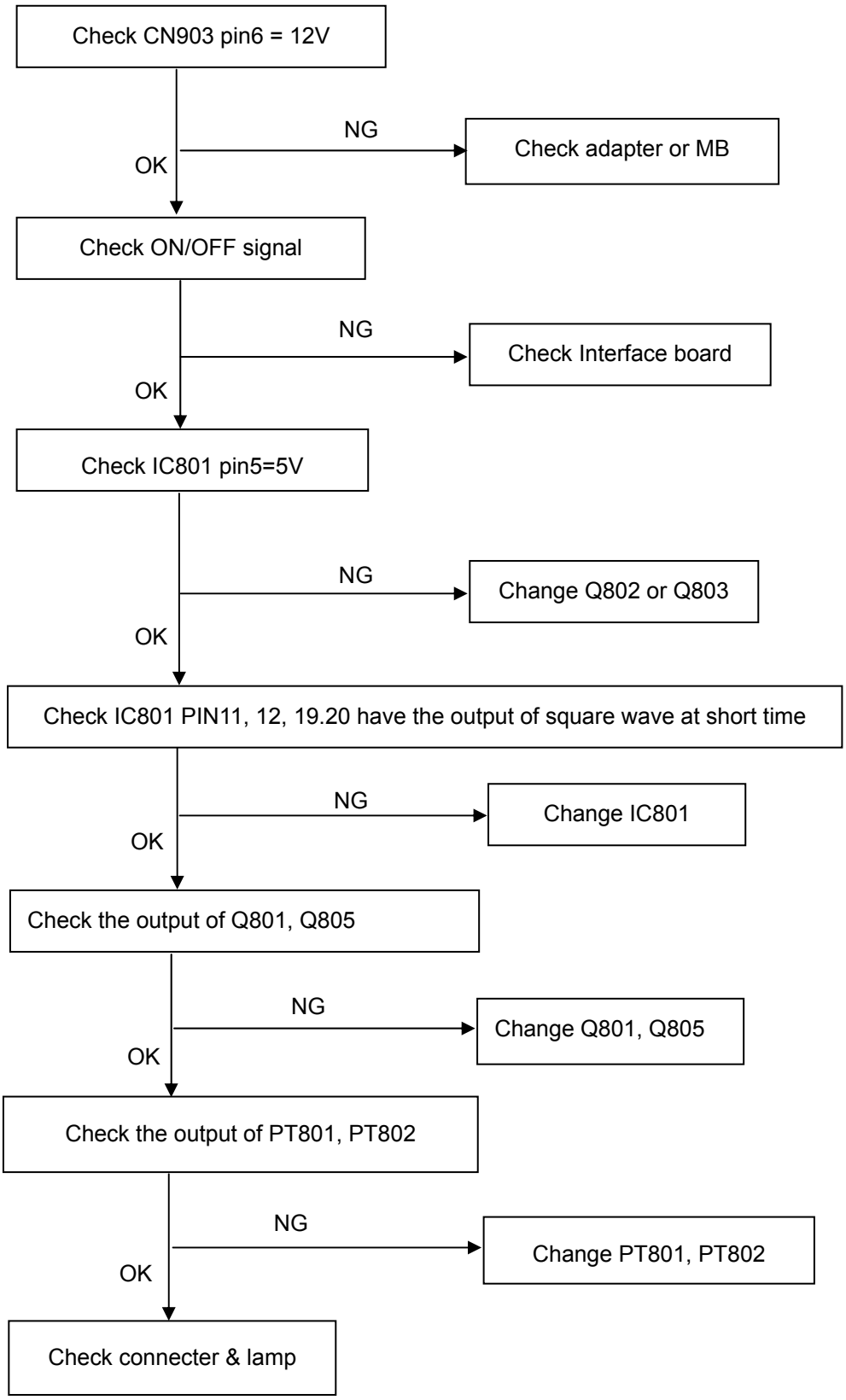
White Screen



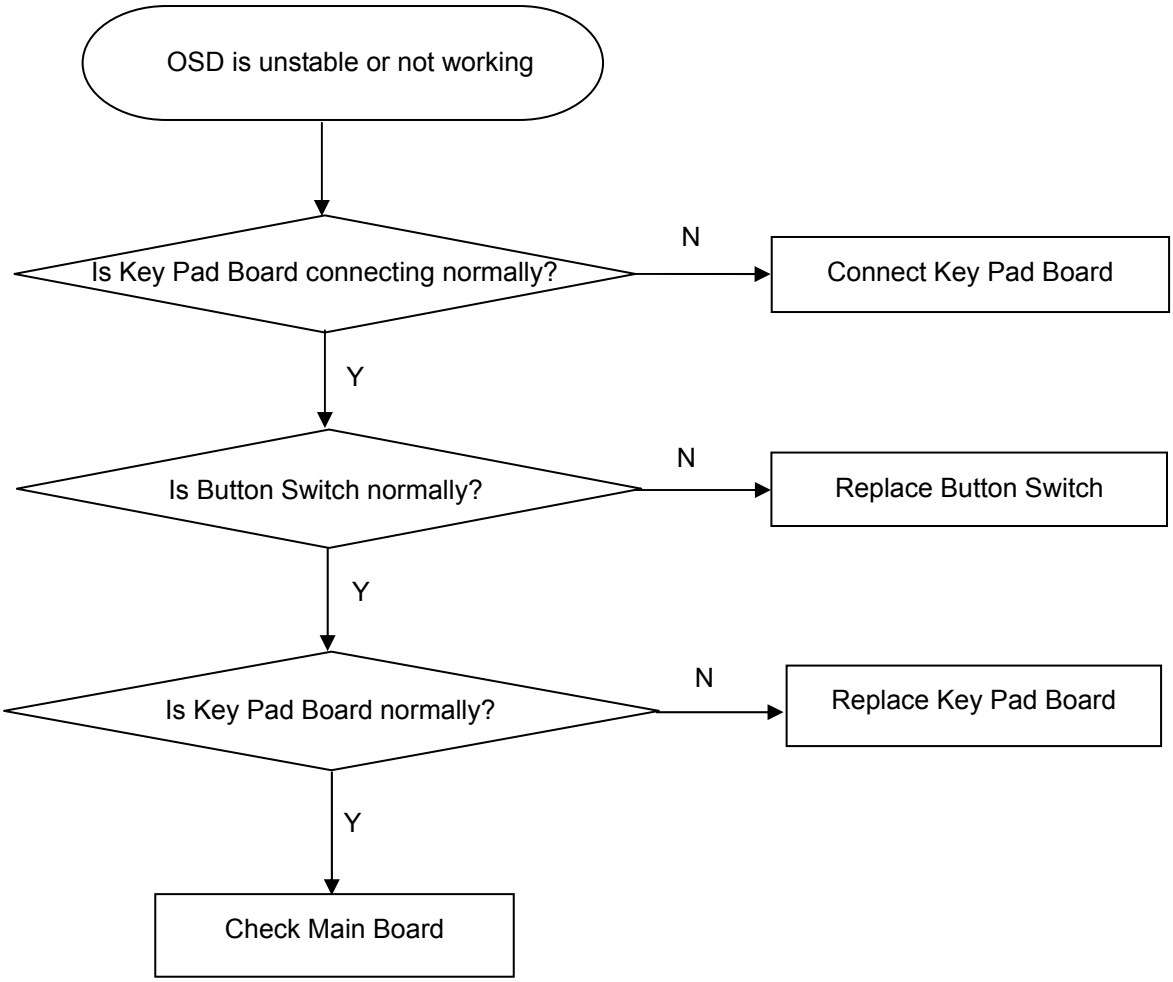
1.) No power


Check CN903 pin6 = 12V
NG
Check AC line volt 110V or 220V
OK
NG
Check AC input
Check the voltage of C905 (+)
OK
NG
Check bridge rectified circuit and F901 circuit
Check start voltage for the pin8 of IC901
OK
NG
Check R904, R932, R933 and Change IC901
Check the auxiliary voltage is bigger than 10V and smaller than 20V
OK
NG
1) Check IC901,D902,C908
2) Check IC903 OVP circuit
Check IC901 pin6 PWM wave
OK
NG
Check IC901
Check F902, F905, Q901, D901, T901, D908, D909, ZD903, ZD904, IC901

W / LED, No Backlight



Keypad Board



9. White- Balance, Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding White-Balance adjustment.

1. How to do the Chroma-7120 MEM. Channel setting

   A. Reference to chroma 7120 user guide

   B. Use “SC” key and “NEXT” key to modify x,y,Y value and use “**ID**” key to modify the TEXT description Following is the procedure to do white-balance adjust

2. Setting the color temp. you want

   A. MEM.CHANNEL 3 (7800K color):

   7800K color temp. parameter is x = 296 ±20, y = 311 ±20, Y = 180 cd/m^2 ,

   B. MEM.CHANNEL 4 (6500K color):

   6500K color temp. parameter is x = 313±20, y = 329 ±20, Y =180 cd/m^2

3. Enter into the factory mode:

   Turn on power, press the MENU button, pull out the power cord, and then plug the power cord. Then the factory OSD will be at the left top of the panel.

4. Bias adjustment:

   Set the **Contrast** to 50; Adjust the **Brightness** to 80.

5. Gain adjustment:

   Move cursor to “-F-” and press MENU key

   A. Adjust C2 (7800K) color-temperature

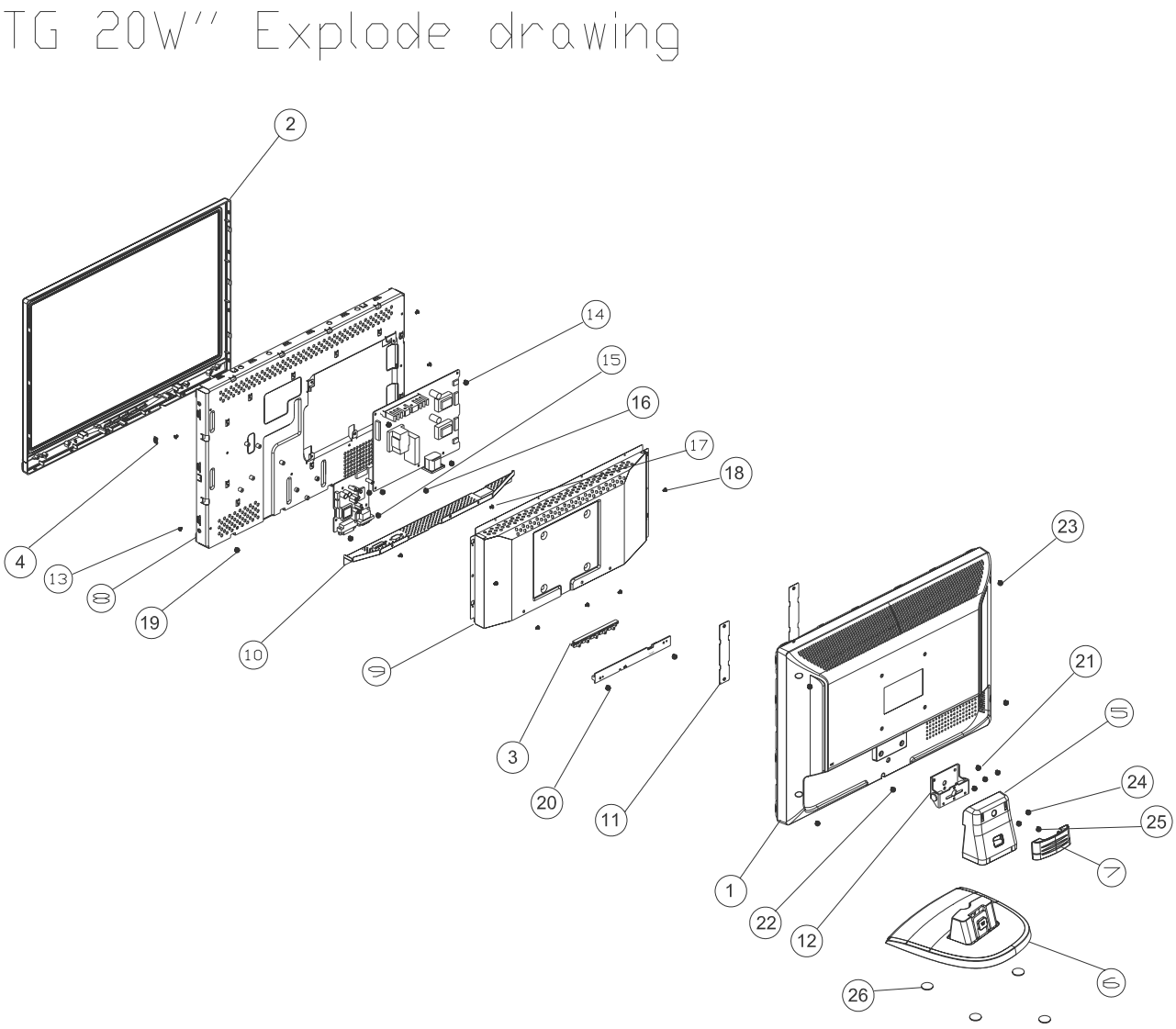
   1. Switch the Chroma-7120 to **RGB-Mode** (with press “MODE” button)
   2. Switch the MEM. Channel to Channel 3 (with up or down arrow on chroma 7120)
   3. The LCD-indicator on chroma 7120 will show x = 296 ±20, y = 311 ±20, Y =180 cd/m^2
   4. Adjust the RED of color1 on factory window until chroma 7120 indicator reached the value R=100
   5. Adjust the GREEN of color1 on factory window until chroma 7120 indicator reached the value G=100
   6. Adjust the BLUE of color1 on factory window until chroma 7120 indicator reached the value B=100
   7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±2

   B. Adjust C1 (6500K) color-temperature

   1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
   2. Switch the MEM.channel to Channel 4(with up or down arrow on chroma 7120)
   3. The LCD-indicator on chroma 7120 will show x = 313 ±20, y = 329 ±20, Y = 180 cd/m^2
   4. Adjust the RED of color3 on factory window until chroma 7120 indicator reached the value R=100
   5. Adjust the GREEN of color3 on factory window until chroma 7120 indicator reachedthe value G=100
   6. Adjust the BLUE of color3 on factory window until chroma 7120 indicator reached the value B=100
   7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance =100±2

   C. Turn the Power-button off to quit from factory mode.

10. Monitor Exploded View



ITEM	P/N	DESCRIPTION	Q'y	ITEM	P/N	DESCRIPTION	Q'y
1	A34G0094-1	Rear Cover	1	14	M1G1730-6-120-GP	Power Pcb/ AC Socket Bkt/Main Frame	4
2	A34G0093-1	Bezel	1	15	M1G1730-6-120-GP	Main Pcb/ Main frame	3
3	A33G0067-1	Key Button	1	16	M1G1140-6-120-GP	Grund	1
4	A33G0060-1	Power Lens	1	17	M1G130-4-120-GP	Connector Bkt/Main Frame	2
5	A34G0046-1	Stand	1	18	M1G130-4-120-GP	Main Shield/ Main Frame	5
6	A34G0045-1	Base	1	19	Q1G330-8-120-GP	Main Frame/Bezel	2
7	A33G0030-1	Cable Clamp	1	20	Q1G330-8-120-GP	Key PCB/Bezel	2
8	A15G0075-MT1-2	Main Frame	1	21	AQ1G1740-12-120	STAND/HINGE	4
9	A85G0025-1	Main Shield	1	22	Q1G330-8-120-GP	Rear Cover/Key PCB/Bezel	1
10	A15G0076-2-3	Connector Bracket	1	23	M1G330-6-120-GP	Rear Cover/Main Frame	4
11	A15G0028-1	Vesa Bkt	2	24	M1G3840-8-125-GP	Rear Cover/Hinge/Main Frame	2
12	A37G0007-5	Hinge	1	25	M1G340-8-125-GP	Stand/Rear Cover/Hinge/Main Frame	1
13	M1G130-6-125-GP	Panel/Main Frame	4	26	12G394-3	Rubber Foot	4

11. BOM List

TA6GM1DFW1UGNP

Location	Part NO.	Description
	002G6008500 GP	SCREW
V000	040G 152509	RECYCLE LABEL
V000	040G 152512	RECYCLE LABEL
	045G 76 28 RN	PE BAG FO MANUAL/BASE
	045G 88606	PE BAG FOR BASE
	045G 88609 10	EPE COVER
	045G 88626 8	PE BAG FOR MOUITOR
	052G 1185	MIDDLE TAPE FOR CARTON
	052G 1186	SMALL TAPE
	052G 1207 A	ALUMINIUM TAPE
	052G 1211 B	AL TAPE
	089G 725HAB D1	SIGNAL CABLE 1.5M
	089G415C15N IS	POWER CABLE
	095G8014 16 63	WIRE HARNESS
	095G8018 3535	LVDS CABLE
	0M1G 130 4120 GP	CPT PANEL/MAINFRAME
	0M1G 130 4120 GP	CPT PANEL/MAINFRAME
	0M1G 130 6125 GP	SCREW
	0M1G 330 6120 GP	3MMX6 STEEL
	0M1G 340 8125 GP	SCREW
	0M1G1140 6120 GP	SCREW
	0M1G1730 6120 GP	M3*6 SCREW
	0M1G1730 6120 GP	M3*6 SCREW
	0M1G3840 8125 GP	SCREW
	0Q1G 330 8120 GP	SCREW 3X8mm
	0Q1G 330 8120 GP	SCREW 3X8mm
	0Q1G 330 8120 GP	SCREW 3X8mm
	705GQAK0B34006	20" LCD REAR COVER ASS'Y
	705GQAK0F34009	BEZEL ASS'Y
	705GQAK0P34011	20.1" LCD STAND-BASE ASS'Y
	750GLGA1W3A11N	PANEL LCD LM201WE3-TLA1 LPL
	A15G0075MT1 2	MAIN FRAME
	A15G0076 2 3	IO-BRACKET
	A33G0030 AS 1L 32	CABLE COVER
	A85G0025 1	SHIELD
	CBPC6GM1A9QAP	MAIN BOARD
	KEPC6QJ1P	KEY BOARD

	PWPCA62GA1P	POWER BOARD
	Q40G 20N972 1A	Rating label
	Q40G0001972 1A	Carton label
	Q40G0002972 1A	Box Sealing sticker
	Q40G0002972 2A	Photo label
	Q40G0002972 3A	Blank label
	Q40G0002972 4A	Energy star label
	Q41G2002972 1A	manual
	Q44GA021 1	EPS(L)
	Q44GA021 2	EPS(R)
	Q44GA021972 1A	Carton
	Q45G 88606 16	PE BAG FOR CLAMP
	Q52G6025 13 63	MYLAR
	A15G0028 1	VESA BKT
	A34G0094AAYA1B	REAR COVER
	A33G0060 1 1C	POWER LENS
	A33G0067 AS 1L	KEY PAD
	A34G0093 ASA1B 30	BEZEL
	012G 394 3	RUBBER FOOT
	A34G0045 ASA1B 20	BASE
	A34G0046 AS 2B	STAND
	A37G0007 5	HINGE
	AQ1G1740 12120	SCREW
	012G6051 1	RUBBER FOOOT
CN701	033G8027 12	WAFER 2*6P 2.0MM R/A
CN403	033G8027 16	WAFER 16PIN 2.0mm DIP
CN101	033G8027 24 H	CONN W TO B12P*2 P*2.0 4505-2
	040G 457624 1B	LABEL-CPU
	040G 45762412B	CBPC LABEL
C408	067G215V100 7N	KY50VB10-M-CC3 5*11.5MM
C712	067G215V101 4N	KY25VB100M-CC3(6.3*11)
C710	067G215V101 4N	KY25VB100M-CC3(6.3*11)
C403	067G215V470 4N	KY25VB47-M-CC3.0 5*11MM
C463	067G215V470 4N	KY25VB47-M-CC3.0 5*11MM
C702	067G215Y479 7N	LOW ESR EC 4.7 UF 50V NC
CN405	088G 35315FHSW GP	D-SUB
CN406	088G 35424F H	DVI CONNECTOR 24PIN
	090G6250 1 GP	HEAT SINK
X401	093G 22 53	CRYSTAL 14.318MHzHC-49US
CN001	033G8027 12 H	PIN HEADER 2*6 R/A

SW001	077G 600 1 CJ	TACT SWITCH
SW002	077G 600 1 CJ	TACT SWITCH
SW003	077G 600 1 CJ	TACT SWITCH
SW004	077G 600 1 CJ	TACT SWITCH
SW005	077G 600 1 CJ	TACT SWITCH
DP101	081G 12 1 GP	LED GP32032M/R003-ZY-33
GND1	095G 900635	WIRE HARNESS
GND2	095G 900637	WIRE HARNESS
CN801	033G8020 5D U	CONNECTOR
CN803	033G8020 5D U	CONNECTOR
CN802	033G8021 2E U	WAFER
CN804	033G8021 2E U	WAFER
	040G 45762412B	CBPC LABEL
IC903	056G 139 3A	PC123Y22FZOF
IC903	056G 139 3B	PC123 Y82FZ0F
VAR901	061G 46 6 GP	TNR 10V471K
C801	065G 3J4706ET	47PF 5% 3KV TDK
C802	065G 3J4706ET	47PF 5% 3KV TDK
C804	065G 3J4706ET	47PF 5% 3KV TDK
C830	065G 3J4706ET	47PF 5% 3KV TDK
C834	065G 3J4706ET	47PF 5% 3KV TDK
C836	065G 3J4706ET	47PF 5% 3KV TDK
C808	065G 6J1506ET	15PF 5% SL 6KV
C835	065G 6J1506ET	15PF 5% SL 6KV
C923	065G306M1022BM GP	Y1.CAP.001UF 250VAC MURATA
C902	065G306M1022BM GP	Y1.CAP.001UF 250VAC MURATA
C901	065G306M1022BM GP	Y1.CAP.001UF 250VAC MURATA
C921	065G306M4722BM GP	4700PF +-20% 400VAC
C915	067G215B471 3N GP	KY16VB470M-L 8*15MM
C915	067G215B471 3R	LOW E.S.R 470UF +/-20% 16V
C919	067G215B681 4R GP	EC 105℃ 680UF M 25V YXG SERIES 10*20MM
C918	067G215B681 4R GP	EC 105℃ 680UF M 25V YXG SERIES 10*20MM
C917	067G215B681 4R GP	EC 105℃ 680UF M 25V YXG SERIES 10*20MM
C914	067G215H102 3R	LOW E.S.R 1000UF +/-20% 16V
C930	067G215H102 3R	LOW E.S.R 1000UF +/-20% 16V
C914	067G215L102 3N	KY16VB1000M-L 10*16
C930	067G215L102 3N	KY16VB1000M-L 10*16
C922	067G215L471 4N	KY25VB470M-L10*16
C922	067G215L471 4R	OW E.S.R 470UF +/-20% 25V
C803	067G215Y4714NL	EC 470uF 25V 8*20mm

C832	067G215Y4714NL	EC 470uF 25V 8*20mm
FB901	071G 55 23 S	BEAD
L801	073G 174 35YSA	FILTER
L802	073G 174 35YSA	FILTER
L803	073G 174 35YSA	FILTER
L804	073G 174 35YSA	FILTER
L904	073G 253 91 L	CHOKE BY LI TA
L903	073G 253 91 L	CHOKE BY LI TA
L904	073G 253 91 T	CHOKE
L903	073G 253 91 T	CHOKE
L904	073G 253 91 LS	CHOKE BY LI SHIN
L903	073G 253 91 LS	CHOKE BY LI SHIN
L902	073L 174 40LSG	LINE FILTER
L901	073L 174 50 LR	CHOKE COIL
PT802	080GL20T 12 DN	X'FMR
PT801	080GL20T 12 DN	X'FMR
T901	080GL20T 18 T	XFMR FOR POWER TDK
CN901	087G 501 37 S	AC INLET ST-01DG-B2K-K
BD901	093G 50460900	BRIDEGE DIODE GBU408 LITEON
D901	093G1100 1052T	BA159G
CN903	095G8013 13 7	WIRE HARNESS
NR901	705G 201 61 01	NR901 ASS'Y
	705GQAK0 57006	Q901 ASS'Y
R908	705GQAK0 61003	R908 ASS'Y
	705GQAK0 61004	R914 ASS'Y
	705GQAK0 93006	D905 ASS'Y
	705GQAK0 93007	D906/D907 AS'Y
	705GQAK0 95006	J904 ASS'Y
H4	A15G0114 1	EMI-BKT
U401	056G 562136	IC TSUMU58J-LF MST
U702	056G 563 7	AIC1084-33PM
U406	056G 643 20	IC RESET-4.38V-G690H438T73UF-SOT-23 GMT
U405	056G1133 34	M24C02-WMN6TP
U404	056G1133 34	M24C02-WMN6TP
U403	056G1133 56	M24C16-WMN6TP
U402	056G1133 63	IC PM25LV010-25 SCE SOIC-8 PMC
U403	056G113356A	24LC16B/SNG SOIC-8PIN
Q402	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q701	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q703	057G 417 4	PMBS3904/PHILIPS-SMT(04)

Q705	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q706	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q401	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q403	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q405	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q702	057G 417 17 T	PZT2907A
Q702	057G 417 23 T	TRA PZT2907AT1G SOT-223
Q702	057G 41717B T	tra PZT2907A PHILIPS
Q704	057G 763 1	A03401 SOT23 BY AOS(A1)
R728	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
R721	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
R421	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
R419	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
R469	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R462	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R463	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R464	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R465	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R466	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R467	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R468	061G0603100	RST CHIPR 10 OHM +-5% 1/10W
R476	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R477	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R479	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R478	061G0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W
R428	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R427	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R420	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R418	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R411	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R429	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R441	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R442	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R443	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R445	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R453	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R454	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R455	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R456	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R458	061G0603101	RST CHIPR 100 OHM +-5% 1/10W

R488	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R704	061G0603101	RST CHIPR 100 OHM +-5% 1/10W
R447	061G0603102	RST CHIP 1K 1/10W 5%
R470	061G0603102	RST CHIP 1K 1/10W 5%
R492	061G0603102	RST CHIP 1K 1/10W 5%
R701	061G0603102	RST CHIP 1K 1/10W 5%
R408	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R413	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R415	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R424	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R425	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R426	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R444	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R471	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R487	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R489	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R490	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R708	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R711	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R714	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R717	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R729	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R406	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R409	061G0603121	RST CHIPR 120 OHM +-5% 1/10W
R414	061G0603121	RST CHIPR 120 OHM +-5% 1/10W
R480	061G0603150 1F	RST CHIPR 1.5 KOHM +-1% 1/10W
R709	061G0603153	RST CHIPR 15KOHM +-5% 1/10W
R703	061G0603202	RST CHIPR 2 KOHM +-5% 1/10W
R494	061G0603220	RST CHIPR 22 OHM +-5% 1/10W
R495	061G0603220	RST CHIPR 22 OHM +-5% 1/10W
R446	061G0603221	RST CHIPR 220 OHM +-5% 1/10W
R448	061G0603222	RST CHIPR 2.2 KOHM +-5% 1/10W
R449	061G0603222	RST CHIPR 2.2 KOHM +-5% 1/10W
R403	061G0603390 0F	RST CHIPR 390 OHM +-1% 1/10W
R474	061G0603392	RST CHIPR 3.9 KOHM +-5% 1/10W
R475	061G0603392	RST CHIPR 3.9 KOHM +-5% 1/10W
R493	061G0603470	RST CHIPR 47 OHM +-5% 1/10W
R437	061G0603471	RST CHIPR 470 OHM +-5% 1/10W
R725	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R405	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W

R422	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R423	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R450	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R451	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R452	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R457	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R459	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R460	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R461	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R491	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R705	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R707	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R712	061G0603472	RST CHIPR 4.7KOHM +-5% 1/10W
R702	061G0603510	RST CHIPR 51 OHM +-5% 1/10W
R723	061G0603513	RST CHIPR 51 KOHM +-5% 1/10W
R436	061G0603560	RST CHIPR 56 OHM +-5% 1/10W
R435	061G0603560	RST CHIPR 56 OHM +-5% 1/10W
R434	061G0603560	RST CHIPR 56 OHM +-5% 1/10W
R440	061G0603750	RST CHIPR 75 OHM +-5% 1/10W
R439	061G0603750	RST CHIPR 75 OHM +-5% 1/10W
R438	061G0603750	RST CHIPR 75 OHM +-5% 1/10W
R726	061G1206151	RST CHIPR 150 OHM +-5% 1/4W
R720	061G1206151	RST CHIPR 150 OHM +-5% 1/4W
C423	065G0603100 31	CHIP 10PF+-0.5PF 50V NPO
C421	065G0603100 31	CHIP 10PF+-0.5PF 50V NPO
C435	065G0603102 32	1000PF +-10% 50V X7R
C450	065G0603104 32	CHIP 0.1UF 50V X7R
C449	065G0603104 32	CHIP 0.1UF 50V X7R
C448	065G0603104 32	CHIP 0.1UF 50V X7R
C447	065G0603104 32	CHIP 0.1UF 50V X7R
C445	065G0603104 32	CHIP 0.1UF 50V X7R
C430	065G0603104 32	CHIP 0.1UF 50V X7R
C429	065G0603104 32	CHIP 0.1UF 50V X7R
C428	065G0603104 32	CHIP 0.1UF 50V X7R
C427	065G0603104 32	CHIP 0.1UF 50V X7R
C426	065G0603104 32	CHIP 0.1UF 50V X7R
C425	065G0603104 32	CHIP 0.1UF 50V X7R
C422	065G0603104 32	CHIP 0.1UF 50V X7R
C420	065G0603104 32	CHIP 0.1UF 50V X7R
C419	065G0603104 32	CHIP 0.1UF 50V X7R

C456	065G0603104 32	CHIP 0.1UF 50V X7R
C454	065G0603104 32	CHIP 0.1UF 50V X7R
C453	065G0603104 32	CHIP 0.1UF 50V X7R
C452	065G0603104 32	CHIP 0.1UF 50V X7R
C451	065G0603104 32	CHIP 0.1UF 50V X7R
C459	065G0603104 32	CHIP 0.1UF 50V X7R
C460	065G0603104 32	CHIP 0.1UF 50V X7R
C461	065G0603104 32	CHIP 0.1UF 50V X7R
C709	065G0603104 32	CHIP 0.1UF 50V X7R
C711	065G0603104 32	CHIP 0.1UF 50V X7R
C713	065G0603104 32	CHIP 0.1UF 50V X7R
C714	065G0603104 32	CHIP 0.1UF 50V X7R
C718	065G0603104 32	CHIP 0.1UF 50V X7R
C457	065G0603104 32	CHIP 0.1UF 50V X7R
C458	065G0603104 32	CHIP 0.1UF 50V X7R
C455	065G0603104 32	CHIP 0.1UF 50V X7R
C417	065G0603104 32	CHIP 0.1UF 50V X7R
C401	065G0603104 32	CHIP 0.1UF 50V X7R
C402	065G0603104 32	CHIP 0.1UF 50V X7R
C404	065G0603104 32	CHIP 0.1UF 50V X7R
C405	065G0603104 32	CHIP 0.1UF 50V X7R
C406	065G0603104 32	CHIP 0.1UF 50V X7R
C407	065G0603104 32	CHIP 0.1UF 50V X7R
C409	065G0603104 32	CHIP 0.1UF 50V X7R
C416	065G0603104 32	CHIP 0.1UF 50V X7R
C415	065G0603104 32	CHIP 0.1UF 50V X7R
C414	065G0603104 32	CHIP 0.1UF 50V X7R
C413	065G0603104 32	CHIP 0.1UF 50V X7R
C412	065G0603104 32	CHIP 0.1UF 50V X7R
C411	065G0603104 32	CHIP 0.1UF 50V X7R
C410	065G0603104 32	CHIP 0.1UF 50V X7R
C444	065G0603105 12	CHIP 1UF 16VX7R 0603
C446	065G0603105 12	CHIP 1UF 16VX7R 0603
C443	065G0603221 32	CHIP 220PF 50V X7R
C715	065G0603223 32	CHIP 0.022UF 50V X7R 0603
C719	065G0603224 22	CHIP 0.22UF 25V X7R
C442	065G0603330 31	CER1 0603 NP0 50V 33P PM
C432	065G0603473 32	CHIP 0.047UF 50V X7R
C433	065G0603473 32	CHIP 0.047UF 50V X7R
C434	065G0603473 32	CHIP 0.047UF 50V X7R

C436	065G0603473 32	CHIP 0.047UF 50V X7R
C437	065G0603473 32	CHIP 0.047UF 50V X7R
C438	065G0603473 32	CHIP 0.047UF 50V X7R
C439	065G0603473 32	CHIP 0.047UF 50V X7R
C440	065G0603473 32	CHIP 0.047UF 50V X7R
C441	065G0603473 32	CHIP 0.047UF 50V X7R
FB403	071G 56K121 M	CHIP BEAD
FB402	071G 56K121 M	CHIP BEAD
FB401	071G 56K121 M	CHIP BEAD
L703	071G 56K121 M	CHIP BEAD
L702	071G 56K121 M	CHIP BEAD
FB404	071G 56K121 M	CHIP BEAD
FB405	071G 56K121 M	CHIP BEAD
FB409	071G 59B431	BK1608 HW 431
FB410	071G 59C300	CHIP BEAD
FB411	071G 59C300	CHIP BEAD
FB412	071G 59C300	CHIP BEAD
D406	093G 39149	MLL5232B BY FULL POWER SMT
D408	093G 39149	MLL5232B BY FULL POWER SMT
D409	093G 39149	MLL5232B BY FULL POWER SMT
D410	093G 39149	MLL5232B BY FULL POWER SMT
D411	093G 39149	MLL5232B BY FULL POWER SMT
D412	093G 39149	MLL5232B BY FULL POWER SMT
D414	093G 39149	MLL5232B BY FULL POWER SMT
D415	093G 39149	MLL5232B BY FULL POWER SMT
D416	093G 39149	MLL5232B BY FULL POWER SMT
D426	093G 39149	MLL5232B BY FULL POWER SMT
D407	093G 64 42 P	BAV70 SOT-23
D413	093G 64 42 P	BAV70 SOT-23
D403	093G 6433P	BAV99
D404	093G 6433P	BAV99
D405	093G 6433P	BAV99
D417	093G 6433P	BAV99
D418	093G 6433P	BAV99
D419	093G 6433P	BAV99
D420	093G 6433P	BAV99
D421	093G 6433P	BAV99
D422	093G 6433P	BAV99
D423	093G 6433P	BAV99
D424	093G 6433P	BAV99

D401	093G 39S 45 T	DIODE ZENER RLZ36B ROHM
D402	093G 39S 45 T	DIODE ZENER RLZ36B ROHM
D425	093G 39S 45 T	DIODE ZENER RLZ36B ROHM
D428	093G 39S 45 T	DIODE ZENER RLZ36B ROHM
D701	093G1020 1 S	GS1D
D702	093G1020 1 S	GS1D
D704	093G2004 2	SR24/PANJIT-SMT
	715G2069 1 2	MAIN BOARD PCB
ZD107	093G 64 49 SU	DIODE ESD EGA 10603V05A1-B INPAQ
ZD108	093G 64 49 SU	DIODE ESD EGA 10603V05A1-B INPAQ
ZD109	093G 64 49 SU	DIODE ESD EGA 10603V05A1-B INPAQ
ZD105	093G 64 49 SU	DIODE ESD EGA 10603V05A1-B INPAQ
ZD106	093G 64 49 SU	DIODE ESD EGA 10603V05A1-B INPAQ
ZD104	093G 64 49 SU	DIODE ESD EGA 10603V05A1-B INPAQ
ZD103	093G 64 49 SU	DIODE ESD EGA 10603V05A1-B INPAQ
	715G2127 1FSC	KEY BOARD PCB
NR901	061G 5810T	RST NTCR 8 OHM +-20% 4A 13mm THINKING
	096G 29 10	H.S. TUBE
Q901	057G 667 21	STP10NK70ZFP
HS1	090G6241 1 GP	HEAT SINK
	0M1G1730 8120	SCREW
R908	061G152M10458G	100K OHM 5% 2W
	096G 29 6	H.S. TUBE
R914	061G152M18858F	0.18OHM 2W 5% MOF
	096G 29 6	H.S. TUBE
D905	093G 60235	FCQ10A06(F10P06Q)
D905	093G 60278	DIODE SP1060 ITO-220 SECOS
	0M1G1730 8120	SCREW
HS3	Q90G0012 3	HEAT SINK
D906	093G 60256	DIODE
D906	093G 60281	DIODE SP20150R ITO-220 SECOS
	0M1G1730 10120	SCREW
HS2	Q90G0007 1	HEAT SINK
	096G 29 1	SHRINK TUBE UL/CSA
IC901	056G 379 71	IC TEA1530AT SO-8 PHILIPS
IC801	056G 608 7	OZT1060GN SOIC-20
Q803	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q903	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q801	057G 600 61	AM4502C-TI-PF S0-8
Q805	057G 600 61	AM4502C-TI-PF S0-8

Q811	057G 600 61	AM4502C-TI-PF S0-8
Q812	057G 600 61	AM4502C-TI-PF S0-8
Q808	057G 759 2	RK7002
Q809	057G 759 2	RK7002
Q813	057G 759 2	RK7002
Q802	057G 760 4	DTA144WKA BY ROHM SMT
Q804	057G 760 5	DTC144WKA BY ROHM SMT
JP801	061G0603000	RST CHIPR 0 OHM +-5% 1/10W
R803	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R804	061G0603103	RST CHIPR 10 KOHM +-5% 1/10W
R835	061G0603105	RST CHIPR 1 MOHM +-5% 1/10W
R818	061G0603124	RST CHIPR 120 KOHM +-5% 1/10W
R827	061G0603220	RST CHIPR 22 OHM +-5% 1/10W
R813	061G0603220	RST CHIPR 22 OHM +-5% 1/10W
R833	061G0603220 3F	RST CHIPR 220KOHM +-1% 1/10W
R801	061G0603242	RST CHIPR 2.4 KOHM +-5% 1/10W
R824	061G0603360 2F	RST CHIPR 36 KOHM +-1% 1/10W
R871	061G0603390 2F	RST CHIPR 39 KOHM +-1% 1/10W
R834	061G0603510 2F	RST CHIPR 51 KOHM +-1% 1/10W
R822	061G0603912	RST CHIPR 9.1 KOHM +-5% 1/10W
R805	061G0805000	0 OHM 1/10W
R810	061G0805000	0 OHM 1/10W
R838	061G0805000	0 OHM 1/10W
R845	061G0805000	0 OHM 1/10W
R806	061G0805100 2F	RST CHIPR 10KOHM +-1% 1/8W
R911	061G0805102	CHIP 1KOHM 1/10W
R917	061G0805102	CHIP 1KOHM 1/10W
R938	061G0805103	10 KOHM 1/10W
R823	061G0805184	RST CHIPR 180 KOHM +-5% 1/8W
R850	061G0805184	RST CHIPR 180 KOHM +-5% 1/8W
R812	061G0805204	RST CHIPR 200 KOHM +-5% 1/8W
R846	061G0805204	RST CHIPR 200 KOHM +-5% 1/8W
R814	061G0805205	RST CHIPR 2 MOHM +-5% 1/8W
R915	061G0805220 3F	RST CHIPR 220KOHM +-1% 1/8W
R912	061G0805223	RST CHIPR 22 KOHM +-5% 1/8W
R826	061G0805390 2F	RST CHIPR 39 KOHM +-1% 1/8W
R916	061G0805472	RST CHIPR 4.7 KOHM +-5% 1/8W
R851	061G0805472	RST CHIPR 4.7 KOHM +-5% 1/8W
R829	061G0805472	RST CHIPR 4.7 KOHM +-5% 1/8W
R852	061G0805523 0F	RST CHIPR 523 OHM +-1% 1/8W

R830	061G0805523 0F	RST CHIPR 523 OHM +-1% 1/8W
R856	061G0805754	RST CHIPR 750 KOHM +-5% 1/8W
R853	061G0805754	RST CHIPR 750 KOHM +-5% 1/8W
R848	061G0805754	RST CHIPR 750 KOHM +-5% 1/8W
R816	061G0805754	RST CHIPR 750 KOHM +-5% 1/8W
R931	061G0805822	RST CHIPR 8.2 KOHM +-5% 1/8W
R811	061G1206000	0 OHM 1/8W
R815	061G1206000	0 OHM 1/8W
R844	061G1206000	0 OHM 1/8W
R928	061G1206000	0 OHM 1/8W
RJ801	061G1206000	0 OHM 1/8W
RJ802	061G1206000	0 OHM 1/8W
RJ803	061G1206000	0 OHM 1/8W
RJ804	061G1206000	0 OHM 1/8W
RJ806	061G1206000	0 OHM 1/8W
R910	061G1206100	10 OHM 1/8W
R918	061G1206101	100 1206
R919	061G1206101	100 1206
R920	061G1206101	100 1206
R935	061G1206101	100 1206
R935B	061G1206101	100 1206
R935A	061G1206101	100 1206
R937	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R942	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R941	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R940	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R939	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R926	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R943	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R924	061G1206152	RST CHIPR 1.5 KOHM +-5% 1/4W
R854	061G1206155	RST CHIPR 1.5 MOHM +-5% 1/4W
R855	061G1206155	RST CHIPR 1.5 MOHM +-5% 1/4W
R809	061G1206204	RST CHIPR 200 KOHM +-5% 1/4W
R817	061G1206204	RST CHIPR 200 KOHM +-5% 1/4W
R849	061G1206204	RST CHIPR 200 KOHM +-5% 1/4W
R843	061G1206204	RST CHIPR 200 KOHM +-5% 1/4W
R847	061G1206205	RST CHIPR 2 MOHM +-5% 1/4W
R866	061G1206241	RST CHIPR 240 OHM +-5% 1/4W
R865	061G1206241	RST CHIPR 240 OHM +-5% 1/4W
R864	061G1206241	RST CHIPR 240 OHM +-5% 1/4W

R863	061G1206241	RST CHIPR 240 OHM +-5% 1/4W
R862	061G1206241	RST CHIPR 240 OHM +-5% 1/4W
R861	061G1206241	RST CHIPR 240 OHM +-5% 1/4W
R930	061G1206243 1F	RST CHIPR 2.43KOHM +-1% 1/4W
R929	061G1206333	RST CHIPR 33 KOHM +-5% 1/4W
R909	061G1206339	3.3 1206
R927	061G1206360 1F	RST CHIPR 3.6 KOHM +-1% 1/4W
R802	061G1206471	470 1206
R932	061G1206472	RST CHIPR 4.7 KOHM +-5% 1/4W
R904	061G1206472	RST CHIPR 4.7 KOHM +-5% 1/4W
R933	061G1206472	RST CHIPR 4.7 KOHM +-5% 1/4W
R901	061G1206684	RST CHIPR 680 KOHM +-5% 1/4W
R902	061G1206684	RST CHIPR 680 KOHM +-5% 1/4W
R903	061G1206684	RST CHIPR 680 KOHM +-5% 1/4W
R807	061G1206754	RST CHIPR 750 KOHM +-5% 1/4W
R808	061G1206754	RST CHIPR 750 KOHM +-5% 1/4W
R841	061G1206754	RST CHIPR 750 KOHM +-5% 1/4W
R842	061G1206754	RST CHIPR 750 KOHM +-5% 1/4W
R858	061G1206754	RST CHIPR 750 KOHM +-5% 1/4W
R859	061G1206754	RST CHIPR 750 KOHM +-5% 1/4W
R860	061G1206754	RST CHIPR 750 KOHM +-5% 1/4W
R857	061G1206754	RST CHIPR 750 KOHM +-5% 1/4W
C811	065G0603102 31	CHIP 1000PF 50V NPO
C841	065G0603102 31	CHIP 1000PF 50V NPO
C839	065G0603104 22	CHIP 0.1UF 25V X7R
C826	065G0603104 32	CHIP 0.1UF 50V X7R
C814	065G0603104 32	CHIP 0.1UF 50V X7R
C825	065G0603105 22	CHIP 1UF 25V X7R 0603
C818	065G0603105 22	CHIP 1UF 25V X7R 0603
C815	065G0603105 22	CHIP 1UF 25V X7R 0603
C813	065G0603105 22	CHIP 1UF 25V X7R 0603
C821	065G0603221 31	CER1 0603 NP0 50V 220P P
C840	065G0603223 32	CHIP 0.022UF 50V X7R 0603
C810	065G0603223 32	CHIP 0.022UF 50V X7R 0603
C816	065G0603224 32	CHIP 0.22UF 50V X7R
C828	065G0603473 32	CHIP 0.047UF 50V X7R
C817	065G0603473 32	CHIP 0.047UF 50V X7R
C819	065G0603474 12	MLCC 0603 0.47UF K 16V X7R
C824	065G0603562 32	CHIP 5.6NF 50V X7R
C829	065G0603682 32	CHIP 0.0068UF 50V X7R 0603

C823	065G0805101 32	100PF +-10% 50V X7R
C844	065G0805101 32	100PF +-10% 50V X7R
C932	065G0805102 32	CHIP 1000P 50VX7R 0805
C805	065G0805104 32	CHIP 0.1U 50V X7R
C812	065G0805104 32	CHIP 0.1U 50V X7R
C837	065G0805104 32	CHIP 0.1U 50V X7R
C843	065G0805104 32	CHIP 0.1U 50V X7R
C907	065G0805104 32	CHIP 0.1U 50V X7R
C916	065G0805104 32	CHIP 0.1U 50V X7R
C920	065G0805104 32	CHIP 0.1U 50V X7R
C924	065G0805104 32	CHIP 0.1U 50V X7R
C927	065G0805104 32	CHIP 0.1U 50V X7R
C911	065G0805105 22	CHIP 1UF 25V X7R 0805
C928	065G0805122 31	CHIP CAP 0805 1200PF J 50V NPO
C909	065G0805224 32	0.22UF,K,50V,X7R
C822	065G0805225 22	CHIP 2.2UF 25V X7R 0805
C827	065G0805471 31	CHIP 470PF 50V NPO
C845	065G0805471 31	CHIP 470PF 50V NPO
C912	065G1206102 72	CHIP 1000PF 500V X7R
C929	065G1206102 72	CHIP 1000PF 500V X7R
C806	065G1206475 22	4.7U/25V X7R
C807	065G1206475 22	4.7U/25V X7R
C809	065G1206475 22	4.7U/25V X7R
C831	065G1206475 22	4.7U/25V X7R
C833	065G1206475 22	4.7U/25V X7R
C838	065G1206475 22	4.7U/25V X7R
R934	071G 56D121	B201209D121TT
F902	084G 52 2	SMT 4A 32V
D909	093G 64 44 S	LL4148WP
D908	093G 64 44 S	LL4148WP
D903	093G 64 44 S	LL4148WP
D821	093G 64 44 S	LL4148WP
D818	093G 64 44 S	LL4148WP
D815	093G 64 44 S	LL4148WP
D808	093G 64 44 S	LL4148WP
D805	093G 64 44 S	LL4148WP
D803	093G 6433P	BAV99
D810	093G 6433P	BAV99
D812	093G 6433P	BAV99
D820	093G 6433P	BAV99

ZD801	093G 39S 24 T	RLZ 5.6B LLDS
ZD802	093G 39S 24 T	RLZ 5.6B LLDS
ZD803	093G 39S 24 T	RLZ 5.6B LLDS
ZD904	093G 39S 25 T	RLZ5.1B LLDS
ZD902	093G 39S 40 T	RLZ 13B LLDS
ZD903	093G 39S 40 T	RLZ 13B LLDS
	PWA62GA1AIP	AI ASS'Y
CN901	006G 31500	EYELET
C905	006G 31502	1.5MM RIVET
NR901	006G 31502	1.5MM RIVET
PT801	006G 31502	1.5MM RIVET
PT802	006G 31502	1.5MM RIVET
Q901	006G 31502	1.5MM RIVET
T901	006G 31502	1.5MM RIVET
FB901	006G 31502	1.5MM RIVET
IC904	056G 158 7	AP431V TO-92BY ATC
IC904	056G 158 10 T	IC AZ431AZ-AE1 TO-92 BY AAC
SG901	062G 10 18 BL	SPARK GAP
SG902	062G 10 18 BL	SPARK GAP
C906	065G 1K152 1T	1.5NF/1KV Z5F+-10%
C908	067G 2152207NT	KY50VB22M-TP5 5*11
C908	067G 2152207RT	LOW E.S.R 22UF +/-20% 50V
J802	071G 55 19 T	FERRITE BEAD D9X3. 5X0.8
J905	071G 55 29	FERRITE BEAD
F901	084G 55 1	FUSE 4A 250V CONQUER
F903	084G 56 4W	FUSE 4.0A 250V
F905	084G 56 4W	FUSE 4.0A 250V
D816	093G 521ZJ26T	SB240
D814	093G 521ZJ26T	SB240
D813	093G 521ZJ26T	SB240
D811	093G 521ZJ26T	SB240
D806	093G 521ZJ26T	SB240
D804	093G 521ZJ26T	SB240
D802	093G 521ZJ26T	SB240
D801	093G 521ZJ26T	SB240
D902	093G 6038P52T	PS102R
	715G1847 1 2	POWER BOARD PCB

12. Different Parts List

Diversity of TA6CM1DFW1UGNP compared with TA6GM1DFW1UGNP		
Location	**Part No.**	**Description**
	089G1735LAB D1	SIGNAL CABLE
	A34G0093 ASB1B 30	BEZEL(20")
	A34G0046 AS 3B	STAND
	AM1G1740 10120	SCREW(M4*8)
	750GLCA1WA713N	PANEL LCD 20.1" WA07 000 CPT
	750GLCA1WA723N	PANEL LCD 20.1" WA07 011 CPT
	A15G0075MT1 3	MAIN FRAME
FB401	061G0805000	0 OHM 1/10W
C425	065G0603224 32	CHIP 0.22UF 50V X7R
D426	093G 39147SEM	ZMM5V6ST
D416	093G 39147SEM	ZMM5V6ST
D415	093G 39147SEM	ZMM5V6ST
D414	093G 39147SEM	ZMM5V6ST
D412	093G 39147SEM	ZMM5V6ST
D411	093G 39147SEM	ZMM5V6ST
D410	093G 39147SEM	ZMM5V6ST
D409	093G 39147SEM	ZMM5V6ST
D408	093G 39147SEM	ZMM5V6ST
D406	093G 39147SEM	ZMM5V6ST
	PWPCA62CA1P	POWER BOARD
	705G 201 61 01	NR901 ASS'Y
	705GQAK0 61003	R908 ASS'Y
C811	065G0603562 32	CHIP 5.6NF 50V X7R
C841	065G0603562 32	CHIP 5.6NF 50V X7R
C906	065G 2K152 1T6921	1.5NF/2KV Y5P +-10%
	Q40G 20N972 1B	Rating label
	Q40G0002972 1B	Box Sealing sticker
	Q40G0002972 8A	ECO LABEL
	Q44GA021972 1C	CARTON
	Q45G 88606 R	PE BAG FOR BASE
	Q45G 88606 16 R	PE BAG FOR CLAMP
	Q45G 88609 10 R	EPE COVER
	Q45G 88626 8 R	PE BAG FOR MONITOR
	Q40G0002972 4B	LABEL
	Q41G2002972 4A	manual

Diversity of TA6GM1DFW1UGNC compared with TA6GM1DFW1UGNP		
Location	**Part No.**	**Description**
	A34G0093 ASB1B 30	BEZEL(20")
	A34G0046 AS 3B	STAND
	AM1G1740 10120	SCREW(M4*8)
	750GLGA1W3A11N000Z	PANEL LM201WE3-TLA1 KR ADP LPL
FB401	061G0805000	0 OHM 1/10W
D406	093G 39147SEM	ZMM5V6ST
D408	093G 39147SEM	ZMM5V6ST
D409	093G 39147SEM	ZMM5V6ST
D410	093G 39147SEM	ZMM5V6ST
D411/ D412	093G 39147SEM	ZMM5V6ST
D414/ D415	093G 39147SEM	ZMM5V6ST
D416/ D426	093G 39147SEM	ZMM5V6ST
ZD109	093G 64 59 SU	ESD MLVS0603M04 0603
ZD105	093G 64 59 SU	ESD MLVS0603M04 0603
ZD104	093G 64 59 SU	ESD MLVS0603M04 0603
ZD103	093G 64 59 SU	ESD MLVS0603M04 0603
ZD107	093G 64 59 SU	ESD MLVS0603M04 0603
ZD106	093G 64 59 SU	ESD MLVS0603M04 0603
ZD108	093G 64 59 SU	ESD MLVS0603M04 0603
	705G 201 61 01	NR901 ASS'Y
	705GQAK0 61003	R908 ASS'Y
C821	065G060322131G	CAP CHIP 0603 220PF G 50V NPO
L901	006G 31502	1.5MM RIVET
L902	006G 31502	1.5MM RIVET
C906	065G 2K152 1T6921	1.5NF/2KV Y5P +-10%
	Q40G 20N972 1B	RATING LABEL
	Q40G0002972 1B	BOX SEALING STICKER
	Q40G0002972 4B	LABEL
	Q40G0002972 8A	ECO LABEL
	Q44GA021972 1C	CARTON
	Q45G 88606 R	PE BAG FOR BASE
	Q45G 88606 16 R	PE BAG FOR CLAMP
	Q45G 88609 10 R	EPE COVER
	Q45G 88626 8 R	PE BAG FOR MONITOR
	Q41G2002972 4A	MANUAL